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* Indicates that reports in the BIOS, CIOS and FIAT series are deposited in the Library of Congress Depository Libraries. For a complete list of these libraries, see page facing page 1, volume 5, of this Bibliography.

In addition to the indexes described on the back cover of this Bibliography, the following reference works are available from the Office of Technical Services:

PB L 86000. BLACKBURN, ARLENE and others. FIAT reports: Bibliography and index of reports resulting from American investigations of German industry. Jan 1948. 95 p. Price: $5.00

PB L 87782. HOLLOWAY, O. WILLARD. American and British atomic energy reports: A list of reports on atomic energy released by the Office of Technical Services. Feb 1948. 30 p. Price: 75¢

PB L 56101-R. SWIFT, GRACE. Government document series, analyzed by Office of Technical Services. rev. Nov 1947. 45 p. Price: 25¢

PB L 79322. SWIFT, GRACE and OHNE, JERROLD. Subject headings for technical libraries. Jun 1947. 167 p. Price: $1.50

APPAREL

*PB L 89929. BURTON, A. C. and LAROSE, P. Paul Stratmann and Co., Dortmund; Protective clothing. (BIOS Evaluation Rept 193). Nov 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
This target has only limited interest, but this apparently reflects the general level of development of protective clothing in Germany.

PB L 85523. BUTLER, RAYMOND A. and HUXLEY, DONALD B. Quartermaster Corps critique on arctic and sub-arctic clothing and equipage. (AAF AMC Eng Div Memo Rept TSEAA-666-8). Jun 1947. 11 p. Price: Microfilm-$1.25 - Photostat-$2.00
Arctic equipment studied include lightweight pyramidal tents and other tents and shelters, shoe pacs, felt white shoes, ski boots, pile parkas, suspenders, sweaters and other cold weather clothing. Representatives of three Task Forces in Alaska and Wisconsin during the winter 1946-1947 participated.

PB L 87246. HALL, JOHN F., JR. and HAGAN, GENE. Thermal insulation and physical tests of sample intermediate flying shoes. (AAF AMC Eng Div Memo Rept TSEAA-666-15) Dec 1947. 16 p. Price: Microfilm-$1.25 - Photostat-$2.00
The purpose of these tests was to determine the thermal insulation on an electrically heated copper foot of ten footgear assemblies and to determine the physical characteristics of these shoes when exposed to temperature extremes (-65° F. to 165° F.). Results of tests are given in tabulated form in Appendix I which also contains photographs of the 10 footgear assemblies.

PB L 81248. RADNEY, DOUGLAS and ADAMS, HOWARD E. Service test of overcoat, field, OD-7, with removable liner spec. no. PQD 587; and cap, service, with removable cover - spec no. PQD 595. Final report. (Air Proving Ground, Eglin Field Fla. Project 3-47-50). Jun 1947. 33 p. Price: Microfilm-$1.75 - Photostat-$4.00
This report describes a service test to determine the adaptability and acceptability of material listed above for general all purpose use by male AAF personnel. It was concluded that the design was unsatisfactory for purpose intended. It was recommended that a combination raincoat and overcoat incooperating the basic design purpose of the test coat be designed and submitted for test. Fifteen photographs are included.

CHEMICALS AND ALLIED PRODUCTS

Drugs and Pharmaceuticals

PB L 74517. BOEHRINGER, C. F., & SÖHNE, MANNHEIM, GERMANY. File notes on pharmaceuticals. (FIAT Microfilm Reel I 304, Frames 1264-1760) 1936-1946. 497 f. Price: Microfilm-$5.75 - Enlargement print-$50.00
This reel contains excerpts from the files of the above firm, 1936-1946. They deal with a great variety of pharmaceutical products and their intermediates. With few exceptions they are not complete descriptions of processes; they are file notes, correspondence, and comments on various phases of the production, price calculations, records of tests and analyses, and projects for future production. Among the drugs dealt with in greater detail are atropine, digitalis preparations, sex hormones, and anti-malarials. The results of numerous tests of the latter, performed with canary birds, are included. In German, except one which is in English.

PB L 74485. BOEHRINGER, C. F., & SÖHNE, MANNHEIM, GERMANY. Reports on pharmaceuticals. (FIAT Microfilm Reel I 303, Frames 790-1263) 1928-1946. 474 f. Price: Microfilm-$5.50 - Enlargement print-$47.50
This reel contains numerous working directions and mixing formulas for the production of pharmaceuticals, some of which are identified by trade names only. Some of the papers describe processes starting with natural or synthetic raw materials; many others describe the processing of various drugs to ointments, tablets, ampoules, suppositories, inhalants, etc. Flow sheets for some processes are included. Some of the processes concern substitutes for scarce raw materials. The descriptions are in German, except one in English and two in French.

PB L 90014. F. HOFFMANN LA ROCHE & CO., A. G., BASEL. Pharmaceutical and bio-chemical products. (BIOS Microfilm Reel FD 182/46, Frames 1-672; BIOS/DOCS/3055/32/1-34). 1922-1945. 672 f. Price: Microfilm-$7.00 - Enlargement print-$69.00
In German and English.

PB L 90014-S. F. HOFFMANN LA ROCHE & CO., A. G., BASEL. Pharmaceutical and bio-chemical products. (BIOS Microfilm Reel FD 182/46, abstract). 1922-1945. 6 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 90099. I. G. FARBENINDUSTRIE A. G. Pharmaceuticals, especially sulfonamides: Industrial preparation, chemical and therapeutical research. (BIOS Microfilm Reel FD 530/46, Frames not numbered; BIOS/DOCS/3055) 1937-1945. 2898 f. Price: Microfilm-$7.00 - Enlargement print-$291.00
In German and French.

PB L 90099-S. I. G. FARBENINDUSTRIE A. G. Pharmaceuticals, especially sulfonamides: Industrial preparation, chemical and therapeutical research. (BIOS Microfilm Reel FD 530/46, abstract) 1937-1945. 26 p. Price: Microfilm-$1.50 - Photostat-$3.00
In English.

PB L 90006. I. G. FARBENINDUSTRIE A. G., ELBERFELD, GERMANY. Pharmaceuticals. (BIOS Microfilm Reel FD 20/46, pts. 1 and 2, Frames not numbered; BIOS/DOCS/B115X) 1930-1944. 906 f. Price: Microfilm-$7.00 - Enlargement print-$92.00
In German.

PB L 90006-S. I. G. FARBENINDUSTRIE A. G., ELBERFELD, GERMANY. Pharmaceuticals. (BIOS Microfilm Reel FD 20/46, abstract) 1930-1944. 6 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

Drugs and Pharmaceuticals (contd)

PB L 90022. I. G. FARBENINDUSTRIE A. G., HÖCHST/MAIN. Pharmaceutical products. (BIOS Microfilm Reel FD 187/46, Frames 1-302; BIOS/DOCS/2278) 1940-1945. 302 f. Price: Microfilm-$7.00 - Enlargement print-$32.00
In German.

PB L 90022-S. I. G. FARBENINDUSTRIE A. G., HÖCHST/MAIN. Pharmaceutical products. (BIOS Microfilm Reel FD 187/46, abstract) 1940-1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

Agricultural Chemicals

PB L 87705. MARTIN, H. and SHAW, H. Obstbaum Versuche Anstalt, Jork, Hanover. (BIOS Interim Investigation Rept 22F-22/15) May 1946. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
The report is merely a summary of a visit to this undamaged station, which carries out trials of proprietary products for plant protection.

Plastics and Plasticizers

*PB L 89850. GREY, J.T. I.G. Farbenindustrie, chemical plant, synthetic resins, Uerdingen. (FIAT Evaluation Rept 360). Aug 1945. 1 p. Price: Microfilm -$1.00 - Photostat -$1.00
This plant had done the application work on an aircraft adhesive "Kaurit" which was a urea formaldehyde glue set with a mixture of NH_4Cl and resorcin to improve water absorption resistance.

PB L 90190. I. G. FARBEN. KUKO KUNSTSTOFF KOMMISSION. Technical reports dealing mainly with plastics and emulsions. (BIOS Microfilm Reel FD 834/46, Frames 2-405; BIOS/DOCS/ B 188 X) 1937-1943. 421 f. Price: Microfilm-$7.00 - Enlargement print-$44.00
In German.

PB L 90190-S. I. G. FARBEN. KUKO KUNSTSTOFF KOMMISSION. Technical reports dealing mainly with plastics and emulsions. (BIOS Microfilm Reel FD 834/46, abstract) 1937-1943. 4 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 90193. I. G. FARBEN. KUKO KUNSTSTOFF KOMMISSION. Technical reports dealing mainly with plastics and emulsions. (BIOS Microfilm Reel FD 840/46, Frames 1-1071; BIOS/DOCS/ Dept. SC. Ind. Res. SR 3/4/453) 1929-1943. 1071 f. Price: Microfilm-$7.00 - Enlargement print-$109.00
In German. (See also FD 834/46 (BIOS B 188 X)

PB L 90193-S. I. G. FARBEN. KUKO KUNSTSTOFF KOMMISSION. Technical reports dealing mainly with plastics and emulsions. (BIOS Microfilm Reel FD 840/46, abstract) 1929-1943. 6 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 90032. KRANNICH, WALTER. Synthetic materials for technical anti-corrosion use. Manual on Vinidur and Oppanol. (BIOS Microfilm Reel FD 229/46, Frames not numbered; BIOS/DOCS/3397) 1943. 246 f. Price: Microfilm-$7.00 - Enlargement print-$26.00
In German.

PB L 90032-S. KRANNICH, WALTER. Synthetic materials for technical anti-corrosion use. Manual on Vinidur and Oppanol. (BIOS Microfilm Reel FD 229/46, abstract) 1943. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 91557. LYEM, ARTHUR. New York-Hamburger Gummiwaren, rubber articles, Hamburg. (FIAT Evaluation Rept 264). Aug 1945. 1 p. Price: Microfilm -$1.00 - Photostat -$1.00
Manufacture of bakelized paper, fabric for electrical insulation purposes and rubber goods. This target is of no further interest as to plastics application.

*PB L 89854. LYEM, ARTHUR. Lonza Werke G.m.b.H., plastics, Weil a/R., near Basel. (FIAT Evaluation Rept 364). Aug 1945. 1 p. Price: Microfilm -$1.00 Photostat -$1.00
The statement is made that the technique and processes for making cellulose acetate films, synthetic straw, laminated articles, plastic tubes, insulation hose, and adhesives were investigated.

PB L 74501. RÖHM & HAAS, DARMSTADT, GERMANY. A collection of formulae in the field of plastics. (FIAT Microfilm Reel I 286, Frames A-T, and 1536-2370) 1932-1940. 835 f. Price: Microfilm-$6.00 - Enlargement print-$83.50
This reel consists of numerous brief formulae - one to a frame - of the polymethacrylates produced by the above firm. It is divided between the "Plexigum" and "Borron" series. Each series is arranged alphabetically - by designating letters as "Plexigum KP" and "M" - and numerically. The screener explains that this listing is to serve index purposes for users of the other more detailed Röhm und Haas reports. The formulae use code designations; an explanation and listing of code names, identical with that to be found in other Röhm und Haas reels, precedes the formula collection. In German.

PB L 74547. RÖHM & HAAS, DARMSTADT, GERMANY. Production and testing of synthetic resins. (FIAT Microfilm Reel I 295, Frames A-T, and 8141-9013) 1939-1944. 892 f. Price: Microfilm-$6.00 - Enlargement print-$89.50
This reel starts with the usual explanation and listing of code names. The remainder consists of reports of various tests of numerous resins, particularly as to their possible use for impregnation. These test reports are dated 1939-1944. Some of the tests had been demanded by the Reich Patent Office in connection with pending applications; details of these applications, however, are not disclosed here. Parts of this reel are not very legible. In German.

*PB L 89847. WARD, KYLE, JR. I.G. Farbenindustrie, industrial chemical factory, Weinheim. (FIAT Evaluation Rept 357). Aug 1945. 1 p. Price: Microfilm -$1.00 - Photostat -$1.00
Mention is made of the work done by Drs. Jordan and Berger on plasticizers for synthetic plastics.

*PB L 81804 - *PB L 81810. BRADSHAW, A. P. and KEITH, B.W. Subject index of documents microfilmed at I. G. Farbenindustrie A.G., Hoechst. (FIAT Final Rept 1187, vol. 1-7). May 1947. Pages and mimeograph prices of the individual volumes of this index appear below.

PB No.	Vol. No.	Pages	Price: Mimeo
L 81804	1	40	$1.00
L 81805	2	36	1.00
L 81806	3	44	1.25
L 81807	4	39	1.00
L 81808	5	40	1.00
L 81809	6	49	1.25
L 81810	7	44	1.25

The Hoechst plant is divided into five main production "departments", namely: (1) Inorganic, (2) pharmaceuticals, (3) intermediates, (4) dyestuffs, and (5) acetone, acetic acid, and plastics. In addition to these main departments, there are three divisions, (1) technical, (2) color, and (3) applied technical and six laboratories, (1) main, (2) catalytic, (3) pharmaceutical, (4) analytical, (5) inorganic, and (6) physical. The body of this report is divided into three parts. Item 1 (Vol. 1, p. 2-10) contains an alphabetical list of the general subject matter contained in each reel. Item 2 (Vol. 1, p. 11 through Vol. 7, p. 265) contains a detailed subject index of every document microfilmed, giving the reel and frame number for each. The subjects are listed alphabetically under the general headings approved and used by "Chemical Abstracts" in its classification of scientific research. Item 3 (Vol. 7, p. 266-285) contains an alphabetical listing by subject matter of all the documents on German industry standards.

*PB L 81287. HASS, ANTHONY and GLOSS, G. H. Subject index of documents microfilmed at I. G. Farbenindustrie, Uerdingen. (FIAT Final Rept 1122). May 1947. 43 p. Price: Mimeo-$1.25

This index lists the complete collection of organic and inorganic laboratory reports of the Uerdingen plant covering the years 1929 through 1944. The research work at this plant was concerned with dyes, intermediates, wood preservatives, plasticizers, and a number of inorganic compounds used in pigments and other materials, and approximately 550 reports are included in the collection. The manufacturing procedures for all other products manufactured at Uerdingen are also included. The reports were microfilmed in chronological order (FIAT Microfilm Reels I-66 through I-74) and are listed in this index alphabetically by subject headings.

PB L 74300. I. G. FARBENINDUSTRIE A. G., LEUNA. Reports on organic preparations. (FIAT Microfilm Reel F 209, Frames 1779-2813) 1935-1944. 1035 f. Price: Microfilm-$6.00 - Enlargement print-$103.50

This FIAT microfilm reel contains miscellaneous reports in the fields of chemistry and chemical technology. Individual reports, listed below, are available as enlargement prints. The legibility of the entire reel is not very good, and reproductions may be poorly legible. Please give PB and frame numbers when ordering individual items. In German.

Frames	Title	Price
1779-1803 PB L 74300	Production of pure methyl alcohol. 1944. In German.	$2.50
1804-1810 PB L 74300	Preparation of anhydrous hydrocyanic acid. 1938. In German.	1.50
1811-1823 PB L 74300	Determination of formic acid in "Alkacid" solutions. 1938. In German.	1.50
1824-1833 PB L 74300	Determination of xylenols by bromination. 1941. In German.	1.50
1834-1844 PB L 74300	Determination of phenol in waste liquors. 1942. In German.	1.50
1845-1906 PB L 74300	Rectifying distillation of phenolic liquors, particularly those from lignite hydrogenation. 1936. In German. Some pages are poorly legible to illegible.	6.50
1907-1916 PB L 74300	Results of tests of building materials for resistance to corrosion and pressure in the distillation of phenolic liquors. 1935. In German. Largely illegible.	1.50
1917-1941 PB L 74300	Discharge of excess heat from the ammonia furnace by the removal of hot gas. 1941. In German.	2.50
1942-1953 PB L 74300	Determination of sulfonates in "Mesamons" and soaps. 1941. In German.	1.50
1954-1960 PB L 74300	Titration of copper in nitric acid solution. 1941. In German.	1.50
1961-1967 PB L 74300	Information on "Leunapyridine" and its processing. 1941. In German.	1.50
1968-1977 PB L 74300	Emission-spectral analytical determination of zinc in aluminum bronze. 1938. In German.	1.50
1978-1985 PB L 74300	Spectrographic determination of alkali in ashes. 1938. In German.	1.50
1986-1990 PB L 74300	Determination of benzene in cyclohexane. 1941. In German.	1.50
1991-2012 PB L 74300	Determination of o-, m-, and p-cresols. 1943. In German.	2.50
2013-2033 PB L 74300	Production of methoxy-butadiene from products of the acetalization of crotonaldehyde. 1942. In German.	2.50
2034-2038 PB L 74300	Desulfurization of coke oven gas. 1937. In German. Largely illegible.	1.50
2039-2095 PB L 74300	Production of ethylchloride by addition of hydrogen chloride to dilute ethylene. 1936. In German.	6.00
2096-2112 PB L 74300	Separation of aliphatic alcohols from admixed hydrocarbons. 1944. In German.	2.00
2113-2116 PB L 74300	Micro-determination of sodium and potassium. 1941. In German.	1.50
2117-2126 PB L 74300	Titrimetric determination of small amounts of sulfur in gasolines, phenols, and foliage. 1941. In German. Page 2 of this report - Frame 2118 - is missing.	1.50
2127-2129 PB L 74300	Determination of sulfur in coal and coke. 1941. In German.	1.50
2130-2143 PB L 74300	Production of magnesium oxide and calcium nitrate from dolomite. 1942. In German.	1.50
2144-2151 PB L 74300	Determination of the humus substance in soil. 1942. In German.	1.50
2152-2160 PB L 74300	Contribution to the knowledge of the melting behavior and the chemical processes in burning up salt-containing coal to which alumina is added. 1944. In German.	1.50
2161-2172 PB L 74300	Determination of organic per-oxides and per-acids in the presence of hydrogen peroxide. 1944. In German.	1.50

2173-2178 PB L 74300 — These frames are illegible.

2179-2185 PB L 74300 — Tests of lead-iron carbonyls as anti-knock agents. 1943. In German. 1.50

2186-2209 PB L 74300 — New methods of processing water for boiler plants. 1943. In German. 2.50

2210-2222 PB L 74300 — The possible effect of drying the circular gas with concentrated sulfuric acid on the ammonia catalysis. 1937. In German. Poorly legible. 1.50

2223-2237 PB L 74300 — The effect of lowering the ammonia content in the circulating gases of the ammonia synthesis. 1938. In German. 1.50

2238-2302 PB L 74300 — The compressibility of technical gases and gas mixtures. 1941. In German. 6.50

2303-2336 PB L 74300 — The first year of the refinery for phenol oil. 1938. In German. 3.50

2337-2351 PB L 74300 — Experiments for the determination of octane numbers of gaseous motor fuels. 1943. In German. 1.50

2352-2404 PB L 74300 — Gaseous fuel for starting airplane motors. 1939. In German. 5.50

2405-2426 PB L 74300 — Catalyst 6434 (VK) in circulating gas. 1938. In German. 2.50

2427-2447 PB L 74300 — Determination of the growth of algae in the nozzles of water filters. 1938. In German. 2.50

2448-2452 PB L 74300 — Processing of feed water for evaporators. 1938. In German. 1.50

2453-2458 PB L 74300 — Discussion of the Winkler-Alsterberg method for determining oxygen. 1938. In German. 1.50

2459-2466 PB L 74300 — Removal of oil from condensates by means of iron chloride and sodium hydroxide. 1939. In German. 1.50

2467-2479 PB L 74300 — Apparatus for determining lead in urine and feces. 1937. In German. 1.50

2480-2485 PB L 74300 — Definition and explanation of the "alkalinity number." 1937. In German. 1.50

2486-2499 PB L 74300 — Oil recovery in the production of "Mepasin"-sulfonate from "semi-sulfochlorinated Mepasin." 1939. In German. 1.50

2500-2530 PB L 74300 — Production of surface-active substances. 1939. In German. 3.50

2531-2562 PB L 74300 — Simultaneous reaction of sulfur dioxide and chlorine with liquid hydrocarbons. 1939. In German. 3.50

2563-2575 PB L 74300 — Pressure oxidation of n-propyl-alcohol. 1938. In German. 1.50

2576-2605 PB L 74300 — Production of amines by the hydrogenating oxidation of aldehydes and ketones. 1943. In German. 3.00

2606-2618 PB L 74300 — Practical tests of "Mepasin" sulfonate and "Mepasin" sulfochloride as detergents. 1939. In German. 1.50

2619-2635 PB L 74300 — Removal of impurities from oils by centrifuging. 1937. In German. 2.00

2636-2649 PB L 74300 — Alkaline treatment of methallyl chloride and its derivatives. 1943. In German. 1.50

2650-2668 PB L 74300 — Zephirols based on sulfochlorides and oxo-alcohols. 1944. In German. 2.00

2669-2684 PB L 74300 — Experiments for obtaining coarsely crystalline urea. 1938. In German. 2.00

2685-2737 PB L 74300 — Modification of the shape and size of ammonium sulfate crystals. 1936. In German. 5.50

2738-2745 PB L 74300 — Investigation of chromate sludge as fireproof building material. 1937. In German. 1.50

2746-2806 PB L 74300 — Production of ethylene from ethane. 1943. In German. 6.50

2807-2813 PB L 74300 — Volumetric determination of the water content of fertilizing salts. 1935. In German. 1.50

PB L 74054. I. G. FARBENINDUSTRIE A. G., UERDINGEN, GERMANY. Synthetic resins, plasticizers, miscellaneous chemicals. (PIAT Microfilm Reel BB 231, Frames 1-191) 1933-1946. 191 f. Price: Microfilm-$2.75 - Enlargement print-$19.50

The production processes of I. G. Uerdingen are described. The products include synthetic resins, urea compounds, benzoic acid derivatives, aniline derivatives, adhesives and solvents. The individual items are listed below and will be available as enlargement prints. Please include PB and frame numbers when ordering individual items from this microfilm reel. In German.

Frames	Title	Price
1 PB L 74054	Preparation of N-ethyl acetanilid in Mannol. 1946. In German.	$1.50
2 PB L 74054	Acetethyl-o-toluidine. 1946. In German.	1.50
3 PB L 74054	Acetanilid. 1946. In German.	1.50
4-5 PB L 74054	N-Methyl acetanilid. 1946. In German.	1.50
6 PB L 74054	Ethyl ether, crude. 1946. In German.	1.50
7-9 PB L 74054	Mono- and di-ethylaniline. 1946. In German.	1.50
10-11 PB L 74054	Mono- and di-ethyl-m-toluidine. 1946. In German.	1.50
12 PB L 74054	Ethyl-benzyl-aniline. 1945. In German.	1.50
13 PB L 74054	N-Ethylbenzyl-m-toluidine. 1945. In German.	1.50
14-15 PB L 74054	Aniline. 1946. In German.	1.50
16-17 PB L 74054	Mixture of aniline-toluidine-hydrochlorides. 1946. In German.	1.50
18-22 PB L 74054	Alkydal H and S 45; Soft resin 166; Alftalat 292D. 1946. In German.	1.50
23 PB L 74054	Benzalacetone. 1936. In German.	1.50
24-28 PB L 74054	Benzaldehyde. 1946. In German. Frame 24 is of no technical importance.	1.50
29-33 PB L 74054	Benzoic acid (by means of air) from toluene. 1946. In German.	1.50
34-35 PB L 74054	Benzoic acid, methyl ester. 1941. In German.	1.50

Miscellaneous Chemicals (contd)

36-37 PB L 74054 — Distillation of benzene and toluene. 1946. In German. 1.50

38-41 PB L 74054 — Isophthalic acid. n. d. In German. 1.50
This item will not reproduce well.

42-43 PB L 74054 — Benzophenone. 1941. In German. 1.50

44-45 PB L 74054 — Benzotrichloride. 1946. In German. 1.50

46-47 PB L 74054 — Benzyl alcohol. 1946. In German. 1.50

48-49 69 PB L 74054 — Benzyl chloride. 1946. In German. 1.50

50 PB L 74054 — Benzyl cresol. n. d. In German. 1.50

51 PB L 74054 — Benzyl phenol. 1946. In German. 1.50

52-53 PB L 74054 — n-Butylaniline. 1946. In German. 1.50

54 PB L 74054 — Two-solvent mixtures. 1946. In German. 1.50

55 PB L 74054 — N-sec. Butyl-m-toluidine. 1946. In German. 1.50

56 PB L 74054 — N-Butyl-3-chloro-aniline. 1946. In German. 1.50

57-58 75 PB L 74054 — Methyl carbamate; ethyl carbamate; n-butyl carbamate. 1946. In German. 1.50

59 PB L 74054 — "Cellapret" wet. 1943. In German. 1.50

60 PB L 74054 — Chlorocarbonic acid ethyl ester. 1946. In German. 1.50

61-65 68 PB L 74054 — Chlorobenzoic acids. 1946. In German. 1.50

66-67 PB L 74054 — p-Chlorobenzoic acid sodium ("Mikrobin"). 1946. In German. 1.50

68 PB L 74054 — See Frames 61-65.

69 PB L 74054 — See Frames 48-49.

70 PB L 74054 — 5-Chloro-2-methyl-benzoxazole. 1935. In German. 1.50

71-72 PB L 74054 — 4-Chloro-3,5-dimethylphenol. 1946. In German. 1.50

73-74 PB L 74054 — 4-Chloro-3-hydroxy-1-methyl-benzene. 1946. In German. 1.50

75 PB L 74054 — See Frames 57-58.

76-77 PB L 74054 — Chloroformic acid, phenyl ester. 1946. In German. 1.50

78 PB L 74054 — 6'-Chloro-6-methyl-tetrahydro-naphthalene. 1946. In German. 1.50

79-80 PB L 74054 — Cyanoacetic acid butyl ester. 1946. In German. 1.50

81 PB L 74054 — N,N-Diethylaniline. 1945. In German. 1.50

82 PB L 74054 — N,N-Diethyl-m-toluidine. 1945. In German. 1.50

83-84 PB L 74054 — sym. Diethyldiphenyl urea. 1946. In German. 1.50

85 PB L 74054 — Ethylphenyl-ethyl-o-tolyl-urea. 1946. In German. 1.50

86-87 PB L 74054 — Dibenzyl ether. 1946. In German. 1.50

88 PB L 74054 — N,N-Dimethyl-m-toluidine. 1946. In German. 1.50

89 PB L 74054 — o-Xylene-α,α'-disulfonic acid. 1946. In German. 1.50

90-91 PB L 74054 — sym.-Dimethyldiphenyl urea. 1946. In German. 1.50

92 PB L 74054 — N,N-Diphenyl-N'-ethyl urea. (Akardit III). 1946. In German. 1.50

93 PB L 74054 — Diphenylamine. 1945. In German. 1.50

94 PB L 74054 — N,N-Diphenylurethane. 1946. In German. 1.50

95 PB L 74054 — sym. Diphenylurea. 1946. In German. 1.50

96 PB L 74054 — asym. Diphenylurea (Akardit I). 1946. In German. 1.50

97-98 PB L 74054 — Diphenylmethane. 1936. In German. 1.50
Illegible.

99 PB L 74054 — N,N-Diphenyl-N'-methylurea (Akardit II). 1946. In German. 1.50

100-101 PB L 74054 — Di-o-cresylcarbonate and diphenyl-carbonate. 1946. In German. 1.50

102 PB L 74054 — sym. Diethylurea. 1946. In German. 1.50

103 107 PB L 74054 — 2,4-Dimethyl benzyl chloride. 1946. In German. 1.50

104 PB L 74054 — Plasticiser CK (dixylyl carbonate). 1946. In German. 1.50

105 PB L 74054 — 4,6-Dichloromethyl-1,3-dimethyl-benzene. 1946. In German. 1.50

106 PB L 74054 — Apparatus for chloromethylation. 1946. In German. 1.50

107 PB L 74054 — See Frame 103.

108 PB L 74054 — "Membranit - Schwarzstreifen." 1946. In German. 1.50
Illegible.

109-110 PB L 74054 — Benzylacetate. 1933. In German. 1.50
One frame is illegible.

111-112 PB L 74054 — "Membranit - Rotstreifen." "Membranit - Rotstreifen S 836." 1946. In German. 1.50

113 PB L 74054 — Cyserbol FP 138. 1946. In German. 1.50

114-115 PB L 74054 — Cohesans. 1933. In German. 1.50

116 PB L 74054 — Polyglycerin. 1946. In German. 1.50

117-120 127 PB L 74054 — Monoacetin (Acetin J), diacetin, and triacetin. 1946. In German. 1.50
Will not reproduce well. Frames

119-120 are of no technical importance.

121 — See Frames 171-174. — PB L 74054

122 — Mixture of sodium fluoride and xylenol sodium. 1946. In German. 1.50 — PB L 74054

123-124 — KP oil or Softener KP. 1946. In German. 1.50 — PB L 74054

125-126, 137, 181-182 — Gemollan S, T, and K, Synthetic resin He 44. 1946. In German. 1.50 — PB L 74054

127 — See Frames 117-120. — PB L 74054

128-129 — Ethyl-n-butyl carbonate. Diethyl carbonate. 1946. In German. 1.50 — PB L 74054

130 — "Vorprodukt I." 1946. In German. 1.50 — PB L 74054

131-133 — Synthetic resin ML, MLO, and MLT. 1946. In German. 1.50 — PB L 74054

134-135 — Roskydal L 200 and T 190. 1946. In German. 1.50 — PB L 74054

136 — Phenylresen 41. 1946. In German. 1.50 — PB L 74054

137 — See Frames 125-126. — PB L 74054

138-142, 146, 175-176 — Alkydal TTO, L, U 50, RD 38, RD 18, CO, UTO, and U 508. 1946. In German. 1.50 — PB L 74054

143 — Moton SD. 1946. In German. 1.50 — PB L 74054

144 — Kawritfilm W. 1938. In German. 1.50 — PB L 74054

145 — Preventol 201. 1934. In German. 1.50 — PB L 74054

146 — See Frames 138-142. — PB L 74054

147-148 — Monomethyl aniline. 1945. In German. 1.50 — PB L 74054

149 — p-Toluic acid. 1946. In German. 1.50 — PB L 74054

150 — This frame is of no technical importance. — PB L 74054

151 — Methylolcarbamic acid n-butyl ester. 1946. In German. 1.50 — PB L 74054

152 — Methylphenylurethane. 1946. In German. 1.50 — PB L 74054

153 — Phenylmethylcarbinol acetate. 1946. In German. 1.50 — PB L 74054

154 — N-Methyl-p-anisidine. 1946. In German. 1.50 — PB L 74054

155 — Methylene urea. 1946. In German. 1.50 — PB L 74054

156 — N-Phenylurea. 1946. In German. 1.50 — PB L 74054

157-158 — Naphthalic acid. 1946. In German. 1.50 — PB L 74054

159 — Nitrobenzene. 1946. In German. 1.50 — PB L 74054

160-161 — Solbrol M, A, P, (the respective methyl, ethyl and propyl esters of p-hydroxybenzoic acid). 1934, 1946. In German. 1.50 — PB L 74054

162 — Salicylaldehyde. 1946. In German. 1.50 — PB L 74054

163-164 — Isododecylphenol (Ixamid-Plasticizer No. 10). 1946. In German. 1.50 — PB L 74054
Will not reproduce well.

165 — Brief note on 2-hydroxydiphenyl sodium. 1946. In German. 1.50 — PB L 74054

166-167 — Ethylphenylurethane. 1946. In German. 1.50 — PB L 74054

168 — Phenylcarbamic acid iso-bornyl ester (Tuncuran A). 1934. In German. 1.50 — PB L 74054

169-170 — Phenylisocyanate. 1946. In German. 1.50 — PB L 74054

171-174, 121 — Cesal A, U, D 12, W 400. 1938, 1946. In German. 1.50 — PB L 74054

175-176 — See Frames 138-142. — PB L 74054

177-179 — P-12. 1946. In German. 1.50 — PB L 74054

180 — Phenyl benzyl ether. 1946. In German. 1.50 — PB L 74054

181-182 — See Frames 125-126. — PB L 74054

183 — 2,4,5-Trichlorophenol acetate. 1946. In German. 1.50 — PB L 74054

184 — Triisopropyl benzylchloride. 1946. In German. 1.50 — PB L 74054

185-186 — Cinnamaldehyde. 1944. In German. 1.50 — PB L 74054

187-191 — Cinnamic acid, technical and pure. 1933. In German. 1.50 — PB L 74054
Partly illegible.

PB L 85003. KUHN, RICHARD and others. Biochemistry, Part I. (FIAT Review of German science, 1939-1946). 1947. 224 p. Price: Microfilm-$6.50 - Photostat-$23.00
This publication is part 1 of four volumes covering German research in this field during the war years and was prepared by Richard Kuhn, senior author, and nine others as co-authors. The contents of the volume are presented under the following headings: (1) Fat and fat metabolism; (2) invert soaps and tetrazolium salts; (3) natural pigments I; (4) natural pigments II - syntheses of pyrrols and bile pigments; (5) natural pigments III - syntheses of porphyrins, pentdyopent; (6) natural pigments IV - chlorophyl; (7) photo-chemical dissociation of carboxyhemoglobin; (8) carbonic acid assimilation I - quantum yield in the photo-chemical reduction of carbonic acid; and (9) carbonic acid assimilation II - photo-chemical reduction of quinone. Bibliography. In German.

PB L 74074. RÖHM & HAAS, DARMSTADT, GERMANY. Reports on organic preparations. (FIAT Microfilm Reel C 263, Frames 582-1224 and A-T) 1938-1945. 667 f. Price: Microfilm-$6.00 - Enlargement print-$67.00
This FIAT microfilm reel contains among others, reports on polymerization products. Code names are used particularly in the first group of reports (Frames 582-967). The meaning of the code names is disclosed in the key, Frames A-T. Individual reports are available as enlargement prints. Please include the above PB number and the frame letters or numbers when ordering individual items. In German.

Frames	Title	Price
A - ? PB L 74074	Key to, and index of, code names. n. d. In German.	$2.50
952-967 PB L 74074	Experiments with water-soluble polymerization products based on methacrylic acid. 1938-1941. In German. "Plexileim," "Plexigum," "Agit," "Igevin," and various code names.	39.00
968-969 PB L 74074	The chemotherapy of thrombosis. 1945. In German.	1.50
970-972 PB L 74074	Diffusion of dye solutions into thickening agents for printing. 1939. In German.	1.50
973 PB L 74074	Xyloses and their determination. 1939. In German.	1.50
974-975 PB L 74074	Literature references. 1937-1939. In German. Concerning latex and polyacrylic acid.	1.50
976-977 PB L 74074	Flow diagram illustrating the raw material requirements for products based on methacrylic acid. 1944. In German.	1.50
978-984 PB L 74074	Standards for methacrylic acid methyl ester and butyl ester. 1939. In German.	1.50
985-1224 PB L 74074	Records of tests of synthetic resins. 1943-1945. In German. For water softening effect and other properties.	4.00

PB L 90064. SCHNELL, H. The constitution of polyamides and the relationship between the length of molecular chains and fibre strength. (BIOS Microfilm Reel FD 418/46, Frames 1-91; BIOS/DOCS/4108A). 1944. 91 f. Price: Microfilm-$3.25 - Enlargement print-$11.00
In German.

PB L 90064-S. SCHNELL, H. The constitution of polyamides and the relationship between the length of molecular chains and fibre strength. (BIOS Microfilm Reel FD 418/46, abstract). 1944. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 82439. U. S. FIELD INFORMATION AGENCY, TECHNICAL. Master index of reports on chemical industry in Germany, Part I. (FIAT Microfilm Reel, Job # 1785, Frames 1-74) Feb 1947. 74 f. Price: Microfilm-$2.75 - Enlargement print-$9.00
This is part of a "master index" of the reports on the chemical industry of Germany published by FIAT, BIOS, and CIOS. This reel consists of Edition I. (For the more complete edition II, see reel A 81, PB L 82438.) It has been prepared by the Chemicals Unit of FIAT, February 1947. In English. This volume contains a foreword, a listing of Quartermaster Technical Intelligence Reports by numbers, a list of abbreviations, a numerical list of CIOS, BIOS, and FIAT reports covered; an index of trade names, each index card bearing number and page of the BIOS or FIAT report containing the information; and an index of general subjects with similar references to the FIAT or BIOS reports in question.

PB L 82438. U. S. FIELD INFORMATION AGENCY, TECHNICAL. Master index of reports on chemical industry in Germany, Part II. (FIAT Microfilm Reel A 81, Frames 1-1100) Jun 1947. 1100 f. Price: Microfilm-$7.00 - Enlargement print-$112.00
This reel contains most of Edition II of the subject index of the reports on the German chemical industry by BIOS, CIOS, and FIAT. It was prepared by the Chemicals Unit of FIAT in June 1947, in English. The file cards reproduced in this reel run alphabetically from A to part of P. Each card has a subject heading, followed by brief information on the product, and references to number and page of the FIAT or BIOS report dealing with it.

PB L 82442. U. S. FIELD INTELLIGENCE AGENCY, TECHNICAL. Master index of reports on the chemical industry of Germany. (FIAT Microfilm Reel A 82, Frames 1101-2432) 1947. 1315 f. Price: Microfilm-$7.00 - Enlargement print-$133.00
This is the continuation of the "Master Index of Reports on the Chemical Industry of Germany," Edition II, vol. II. Each frame depicts an index card giving the name of a product and the number of the BIOS or FIAT final report where material about it may be found. Frames 1101-1585 conclude the alphabet, P to Z, the beginning of which is to be found in the preceding reel A 81 (PB L 82438). Frames 1586-2432 contain a new alphabetical arrangement, A to Z, of similar cards. In English.

PB L 79562. WEBER, KARL H. Clarification of the index system to the Stoetzer files of I.G. Farben, Leverkusen. Jul 1947. 8 p. Price: Microfilm-$1.00 - Photostat-$1.00
This file system of reference pertains to the organic research files of I. G. Leverkusen. Appendix 1 is an index to the Stoetzer files and a key to the numbering system employed in classifying these reports. The Stoetzer files which also include some reports on inorganic research are given in FIAT Microfilm Reels M-57 through M-87.

ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES

Electronics

PB L 86225. AMERICAN AIRLINES. Flight test report DC-4 no. 12 - Radar service test. Aug 1947. 3 p.
Price: Microfilm -$1.00 - Photostat -$1.00
In this flight test report, the following items are discussed: 1) spurious beacon signals due to reflections off aircraft bulkhead; 2) checks on antenna stabilization equipment; and 3) Coast Guard Rockaway radar beacon performance.

*PB L 89071. BRITISH INTELLIGENCE OBJECTIVES SUB-COMMITTEE. Interrogation of Rolf Möller: Storage tube screens. (Interrogation Rept 689). Jan 1948. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
The discussion mainly concerned the "memory" of a digital computer. The memory consists of the storage of electric charges on an insulating screen - namely the screen of a cathode ray tube - the charges being periodically regenerated by means of a closed loop network. The elimination of anomalous effects was discussed in detail.

PB L 88027. THE BRUSH DEVELOPMENT CO., CLEVELAND, OHIO. Possibilities of substitute for natural quartz for frequency control at high and ultra-high frequencies. (OSRD Rept 287). Dec 1941. 174 p. Price: Microfilm -$5.25 - Photostat -$18.00
In this report, the possibility of replacing natural quartz for purposes of high frequency control is discussed from

various angles. Tube and circuit problems, properties and limitations of different electrical and electro-mechanical methods of frequency control, dynamical implications and crystallographic as well as physico-chemical aspects are covered. Conclusions given are that only piezoelectric control looks promising, that artificially grown crystals would be acquired, and that, because of the extremely variegated requirements, only a very small number among the wealth of chemical compounds come into question. These can be roughly divided into two groups: high melting and water - soluble substances. Tables and diagrams are included.

*PB L 89734. COMBINED INTELLIGENCE OBJECTIVES SUB-COMMITTEE. Investigation at Taufkirchen. Draft report. (Evaluation Rept 302). Aug 1945. 3 p. Price: Microfilm-$1.00 - Photostat-$1.00
The principle problem the firm had worked on was the production of a television head to mount in a controlled glider bomb or rocket. Detailed information on the engines at Taufkirchen, and the systems developed by them is given in appendix 1 and 2.

*PB L 89730. COMBINED INTELLIGENCE OBJECTIVES SUB-COMMITTEE. Radar development. Interrogation of Dr. Hans Scherzer of B. H. F. (Evaluation Rept 309). Aug 1945. 6 p. Price: Microfilm-$1.00 - Photostat-$1.00
The following points are touched upon: (1) radar camouflage by non-reflecting materials, (2) aerials, (3) centimeter wave valve development, (4) propagation, (5) receivers, (6) night fighter radar, (7) radio counter measures, (8) fire control radar, (9) submarine radar, (10) transmitters, (11) fuses, and (12) foreign information.

PB L 88018. CUTTING, ROGER. Sealed-beam dissector. Final report, Feb - Oct 1944. (OSRD Rept 5215; Farnsworth Television & Radio Corp Rept 51). Jun 1945. 22 p. Price: Microfilm -$1.50 - Photostat -$3.00
The Farnsworth Television & Radio Corporation agreed to develop and construct a sealed-beam dissector and its associated circuit components. These were to be offered as a later model of conversion unit, to be used for making quantitative comparison with other types of pick-up tubes. There is description of: the sealed-beam dissector, construction and optical alignment, and the preliminary circuit experiments. The objective of sealed-beam developments is also given. Eleven figures and three photographs are included.

PB L 88015. DANA, HOMER J. Precipitation static reduction research: Measurement and suppression of radio static interference on military aircraft. Final report for the period Nov 1, 1942 to Feb 15, 1944. (OSRD Rept 3595). Mar 1944. 302 p. Price: Microfilm -$7.00 - Photostat -$31.00
The expressed purpose of this contract was to make flight tests of precipitation static radio interference phenomena, and of devices for its control. The object of flight tests and the method of recording data are outlined. Classification of flight test data is shown for easy reference to charts. Chart data are shown for twenty-one successful flights. All data are included to give opportunity for others to make further studies besides the ones included in this report. The following subjects are discussed: study and analysis of flight test data; laboratory high voltage corona tests; a proposed static block-and-squirter system of interference reduction; and proposed outline for further research work. 251 charts and figures are included.

PB L 90173. DEUTSCHE REICHSPOST. Telecommunications and Ionosphere research. (BIOS Microfilm Reel FD 734/46, Frames 1-303; BIOS/5003/ 134 I) 1938-1945. 269 f.
Price: Microfilm-$7.00 - Enlargement print-$28.00
In German and English.

PB L 90173-S. DEUTSCHE REICHSPOST. Telecommunications and Ionosphere research. (BIOS Microfilm Reel FD 734/46, abstract) 1938-1945. 3 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 85944. DIECKMANN, MAX. Radio-technical and atmospheric-electric problems of stratosphere research. (AAF T-2 Translation 512) Feb 1946. 26 p.
Price: Microfilm-$1.50 - Photostat-$3.00
This is a translation from the German. This article is subdivided in four parts dealing with the following subjects: Part I, radio technical problems; Part II, atmospheric-electric problems; Part III, a bibliography; and Part IV, discussions. Seventeen figures are included. This article is from "Schriften der deutschen Akademie der Luftfahrtforschung," 1940, pages 119-148.

*PB L 81571. EDWARDS, G. W. Interrogation of Rudolf Urtel. (BIOS Interrogation Rept 114). Feb 1947. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
Prior to the war Mr. Urtel had been engaged in television development, mainly time-base and deflection circuit design for Telefunken in Berlin. At the outbreak of war the work of his group was directed to military problems of the radar type. A small amount of television circuit development was however continued. Apart from television developments only those aspects of his work on radar involving supersonic devices were discussed. Subjects covered were: Supersonic devices for artificial radar targets, and television-time base circuits, etc.

PB L 88034. GERMANY. BEVOLLMÄCHTIGTE FÜR HOCHFREQUENZFORSCHUNG. Influence of a metal disc on the current and voltage distribution on a half-wave antenna. (Rept II D/150; Abstract TL/UK 878; Sig Corps Rept SIGIS 64). n.d. 20 p. Price: Microfilm -$1.25 - Photostat -$2.00
This is a translation of a document obtained from the Scientific Library of the "Bevollmächtigte für Hochfrequenzforschung". The tests described in this paper were made for the purpose of obtaining a survey of the influence of the current and voltage distribution by means of a disc-shaped weight at various phases of a half-wave antenna. It was proved, that the influence of the weight had a different value, depending on its location. The influence was maximum at the end of the antenna and zero at the center. The measuring arrangement, the theoretical foundations are described, and the measuring results given. Ten figures are included.

PB L 88033. GERMANY. BEVOLLMÄCHTIGTE FÜR HOCHFREQUENZFORSCHUNG. Remote controlled dipole, type C 214; Control instrument, type C 299. (Rept II D/172; Abstract TL/UK 900; Sig Corps SIGIS 63) n. d. 20 p. Price: Microfilm-$1.25 - Photostat-$2.00
This installation consists of the dipole and the control instrument with additional connecting cables 20 meters long, which can be used for transmission and reception within a frequency range of 150-160 mc. Photographs are included.

PB L 88032. GERMANY. BEVOLLMÄCHTIGTE FÜR HOCHFREQUENZFORSCHUNG. Vacuum tubes. (Rept III A/4201; Abstract TL/UK 1099; Sig Corps Rept SIGIS 66) n. d. 12 p.
Price: Microfilm-$1.25 - Photostat-$2.00

This paper contains translated titles and English abstracts of documents relating to vacuum tubes, obtained from the "German scientific library of the RHV."

PB L 85720. GIACOLETTO, LAWRENCE J. Radio direction finding developments at 2nd Naval Research Laboratory. Dec 1945. 5 p. Price: Microfilm-$1.00 - Photostat-$1.00
This memorandum contains tabulation of information on radio direction finders as abstracted by the Japanese from their research reports and should be considered as summary data only. Detail data can be obtained by translating the appropriate research documents all of which are supposed to be turned over to Technical Liaison and Investigation Division. It is the opinion of the author that there was nothing of intelligence value in the Japanese Navy's D/F research program.

*PB L 88362. GOUDSMIT, S. A. Dr. Rompe of Osram research dept, spark gap for jamming of the 2m and 9cm wavelength range, Berlin, Ger. (FIAT Evaluation Rept 204). Aug 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
A report was obtained from Dr. Rompe.

*PB L 88360. GOUDSMIT, S. A. Prof. Ramsauer and Dr. Prerichs, A.E.G. research lab., scientific target, Berlin, Ger. (FIAT Evaluation Rept 202). Aug 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Questioned concerning war research problems at his laboratory. He submitted a report concerning the development of a highly sensitive photo-cell.

*PB L 88176. GUELLICH, G. E. Dr. Steierstadt, evacuated scientist, Heidenheim-Brenz, Ger. (FIAT Evaluation Rept 84). Jul 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Radio controlled fuses and steering gear devices are mentioned.

PB L 85533. HERRNFELD, FRANK P. Bridge detector. (Columbia Univ Div of War Res Rept G7/R345). May 1943. 3 p. Price: Microfilm -$1.00 - Photostat -$1.00
A tuned amplifier has been designed as a bridge accessory for the Electronics Design Group. This memorandum contains the electrical specifications and the electrical description. A unit diagram and frequency in cycles per second curves are included.

PB L 85541. HOFF, H.B. and WAGNER, R.A. Attenuation equalizing pads and terminating networks for non-loaded no. 107 P-type cable. (Columbia Univ Div of War Res Rept D12/R334). May 1943. 2 p. Price: Microfilm - $1.00 - Photostat -$1.00
This memorandum covers a compilation of the values of the electrical components to be employed with non-loaded no. 107P cable. These values are subject to a ± 10% tolerance, and had been computed for a frequency of 5 kc.

PB L 91639. IMAMICHI, S. Radio fade-out and magnetic variation. 1938-1943. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Results of investigation by the Meteorological Society of Japan of above subject is presented in this paper.

*PB L 88385. JUHASZ, K. J. DE and MEYER, G. A. Prof. Dr. Ing. Schwenkhagen, electrical methods and instruments developed for the investigation of mechanical quantities, Danzig, Ger. (FIAT Evaluation Rept 1031). Aug 1945. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
He stated that he is not familiar with the various type pick-ups used for investigation of specific mechanical quantities, but he worked extensively on cathode-ray tubes used as indicating and recording elements.

PB L 85961. KAVANAUGH, E. V. Elimination of track static in half-track vehicles. (Detroit Signal Lab Eng Memo D-326-E-T-45). Apr 1945. 14 p. Price: Microfilm -$1.25 - Photostat -$2.00
The purpose of this report is to determine the cause and necessary applications for the elimination of track static interference in half-track vehicles. Tests are described and results given. A drawing showing spring contact for rear idler half track vehicles, and two photographs are included.

PB L 85960. KAVANAUGH, E. V. Track static elimination in full track vehicles. (Detroit Signal Lab Eng Memo D-325-E-T-45). Apr 1945. 18 p. Price: Microfilm -$1.25 - Photostat -$3.00
The purpose of this report was to determine the cause of, and applications necessary for the elimination of objectionable track-static interference in full track vehicles using rubber block or rubber-backed steel block tracks. Blueprints and phtotgraphs are included.

*PB L 88097. KIRKE, H. L. Television and tubes. Interrogation of Dr. Rolf Möller. (BIOS Interrogation Rept 681). Oct 1947. 6 p. Price: Microfilm-$1.00 - Photostat-$1.00
Dr. Möller was responsible for the development of apparatus covering the whole field of television requirements. During the war his company concentrated its efforts on the development of television apparatus for military purposes, in particular for installation in guided missiles. Some of the details of this miniature equipment are given.

PB L 91647. KOOMO, T. Meteoric impact ionization observed on radar oscilloscopes. n.d. 5 p. Price: Microfilm -$1.00 - Photostat $1.00
This report describes the meteoric impact ionization developed by the use of radar equipment. The equipment used for this observation involves the following fundamental characteristics: (1) wavelengths: 2,8,10, and 15 meters; (2) output power: 20 Kw.; (3) impulse width 10^{-5} sec.; and (4) directional antenna system 2x4 hp. The observations were mainly carried out with regard to the meteoric shower and the sporadic meteors from spring to autumn 1946. Tables and two figures are included.

*PB L 89070. LATIMER, K. E. Interrogation of H. Paesler: Carrier telephony: Carrier over H. T. power lines. (BIOS Interrogation Rept 684). Dec 1947. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
H. Paesler specializes in carrier on high tension lines, mostly between power stations. Had some experience of pulse transmission over cables and open wire lines. He was interviewed concerning these features.

*PB L 89918. LLOYD, C. G. Blaupunkt Radio G.m.b.H., Berlin-Schmargendorf: Broadcast and television receivers.

Electronics (contd)
(BIOS Evaluation Rept 180). Nov 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Mention is made of this firm's pre-war work and present construction.

PB L 85966. MCDONALD, EDGAR D. Operating temperature conditions of resistor-suppressors mounted in shielded spark plugs. (Detroit Signal Lab Eng Memo D-226-E.E.45) Dec 1944. 40 p. Price: Microfilm-$1.75 - Photostat-$4.00
The technical objective of the subproject is to determine the thermal conditions to which shielded, internally-mounted spark-plug resistor-suppressors are subjected under various operating conditions and ambient temperatures when used on engine-generator units and motor vehicles. The memorandum covers: conclusions, recommendations, results, discussions, test equipment and material, and test procedure. Twenty-seven figures are included.

PB L 85953. MINNESOTA. UNIVERSITY and U. S. ARMY AIR FORCES. AIR TECHNICAL SERVICE COMMAND. Radio interference transients investigation - I. (Lightning and Transients Res Lab Tech Rept 2) Mar 1946. 61 p. Price: Microfilm-$2.50 - Photostat-$7.00
The main portion of this report is devoted to the subject of relay interference, which is regarded as well enough understood to warrant definite conclusions. Included also is a discussion of some preliminary experimental work on loss cables. Other topics which bear on the relay problem are treated in Appendices. The material covered in the Appendices includes the research facilities of the Lightning and Transients Laboratory, a detailed description of the oscillograph used in the investigation, a report on the comparative pulse response of a noise-meter and a typical receiver, and a theoretical discussion of high loss transmission lines. This arrangement of the material allows uninterrupted presentation of the relay investigation as the main subject of this report. 28 figures are included.

PB L 85954. MINNESOTA. UNIVERSITY and U. S. ARMY AIR FORCES. AIR TECHNICAL SERVICE COMMAND. Radio interference transients investigation - II. (Lightning and Transients Res Lab Tech Rept 3) Jun 1946. 34 p. Price: Microfilm-$1.75 - Photostat-$4.00
The investigation covered by this report is a continuation of the research described in "Radio Interference Transients - I." Stated briefly, the objectives of this work are directed towards a more complete understanding of the radio interference problem by approaching it from the transient point of view through the use of high-speed oscillographic techniques. This report is concerned with the interference produced by electrical machinery. 20 figures are included.

PB L 88019. MOORE, R. C. Block 10 equipment. Final report. (OSRD Rept 4579). Nov 1944. 60 p. Price: Microfilm -$2.25 - Photostat -$6.00
This equipment developed and tested was built for the purpose of investigating the behavior of circuits and signals in the general 1000 mc. region of frequencies for specialized television applications. Two systems were constructed and the general specifications for both systems are given. Descriptions are given of: the AM transmitter unit; the AM receiver unit; the FM transmitter unit No.1; the FM transmitter unit No.2; the FM receiver unit; also characteristics of block 10 equipment. 36 figures including photographs, diagrams, circuits, outline drawings and curves are included.

PB L 88021. MOORE, R.C. Progress of flight tests block 10 AM and FM equipment. Interim report. (OSRD Rept 4106). Jul 1944. 4 p. Price: Microfilm - $1.00 - Photostat -$1.00
Flights of the television equipment were conducted at the R.C.A. field laboratory, Wing's Field, Ambler, Pa. There have been 22½ hours of flying time for testing of the AM system, and 7½ hours for the FM. This interim report describes the nature and results of those tests, with particular reference to the comparative performance of the AM and FM units so far as possible at this time.

PB L 91640. NAGATA, T. and FUKUSHIMA, N. Ionospheric bays accompanying geomagnetic bays. Jan 1948. 3 p. Price: Microfilm-$1.00 - Photostat-$1.00
This is a translation of a technical document obtained from the Geophysical Institute, Tokyo University, Tokyo, Japan, discussing the above subject. From geomagnetic data obtained at Kakioka and ionospheric data at Kokubunji, it was found that a bay-shape variation in the critical frequency of F_2 layer accompanies a geomagnetic bay, and this particular variation in ionosphere is named "ionospheric bay." It was further found statistically that the longer the geomagnetic bays last, the longer are the durations of the corresponding ionospheric bays. Two figures are included.

*PB L 89913. PARKER, A. V. Technische Hochschule, Karlsruhe, Measurement of vibrations and dielectric constants. (BIOS Evaluation Rept 175). Nov 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
The methods of measuring amplitude described are fairly well known. The magnetron employed a very small permanent magnet and may be of interest to cm. valve specialists.

*PB L 81865. PICKEN, W.J. and RICHARDS, J. Valves, Interrogation of Dr. Reinhard Kretzmann, July 11, 1947. (BIOS Interrogation Rept 554). Jul 1947. 2 p. Price: Microfilm -$1.00 - Photostat -$1.00
This interrogation report covers the experience and work of Dr. Kretzmann who had been employed in the research and development section of Telefunken, Berlin, engaged on the development of split-anode magnetrons for pulsed operation.

PB L 90062. PLANUNGSAMT DES REICHSFORSCHUNGSRATES. High frequency defences against bombing attacks. (BIOS Microfilm Reel FD 412-46, Frames not numbered; BIOS/DOCS/CIOS/CC). 1945. 9 f. Price: Microfilm-$1.00 - Enlargement print-$2.00
In German.

PB L 90062-S. PLANUNGSAMT DES REICHSFORSCHUNGSRATES. High frequency defences against bombing attacks. (BIOS Microfilm Reel FD 412/46, abstract). 1945. 4 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 88016. PURINGTON, R. S. Transmitter and receiver. (OSRD Rept 3229) Nov 1943. 13 p. Price: Microfilm-$1.25 - Photostat-$2.00
This is a report on a transmitter and receiver making up a radio control system for right-left deflection of a mobile object. This receiver was designed, to conform to space and other requirements, by Hammond Research Corporation, Gloucester, Mass. Design work started Sept. 1943 and demonstration of the equipment in nearly finished form was given Oct. and Nov. 1943. Figure 1 shows the transmitter circuit; figure 2 shows filament, cathode and grid return circuits for complete receiver; figure 3 shows the R.F. radio tube circuit; figure 4 gives details of the three I.F. tubes, which with the last portions of the first detector constitute the entire I. F. system; and figure 5 shows the final circuit of the receiver operating from the detector output filter.

PB L 89733. RAMM, E. T. Interrogation of Dr. Bürck of Telefunken - Berlin. (CIOS Evaluation Rept 205). Jul 1945. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
Typical amplifiers described using (a) glass construction valves, (b) ceramic construction.

PB L 88025. R. C. A. MANUFACTURING CO. INC., VICTOR DIV. CAMDEN, N.J. Page facsimile equipment for National Defense Research Committee, Final report. (OSRD Rept 871). Jun 1942. 63 p. Price: Microfilm -$2.50 Photostat -$7.00
The project covered by this report was undertaken with the purpose of making available models of facsimile equipment which could be used for testing between an airplane or moving vehicle and a fixed ground station. The final apparatus is described in the instruction book, which is made part of this report. The various developments up to the point of final design can best be described under the following headings: 1) Mechanical design of type D-2 scanner; 2) mechanical design of type M-1 recorder; 3) synchronizing; 4) signal modulation; and 5) paper treating. Following the detailed discussion of these five points is a summary of the results accomplished under the project. Photographs, diagrams and drawings are included.

PB L 81565. REED, EUGENE D. German wartime crystal-research and manufacturing techniques. n. d. 28 p. Price: Microfilm-$1.50 - Photostat-$3.00
The information presented in this survey has been condensed from a variety of Allied technical intelligence reports. The following subjects are discussed: (1) German quartz industry 1940-1944; (2) synthetic quartz crystals; (3) production of crystal units by "Steeg & Reuter"; (4) production of quartz crystals by "Zeiss, Jena"; (5) production of millimeter waves by crystal oscillation; and (6) crystal detectors. One sketch showing a German crystal capsule is included.

PB L 86314. SCHLINGER, A. Bismuth sulfide thermocouples (refutation of a photoelectric interpretation by C. Fink and J. Mackay). (Germany Heereswaffenamtes Rept 1002) Nov 1943. 17 p. Price: Microfilm-$1.25 - Photostat-$2.00
Tests conducted at the "Physikalisches Institut, Deutsche Karls Universität, Prag" because of apparent inconsistencies in Fink and Mackay's data on the sensitivity of bismuth sulfide rectifiers indicated that a thermal effect rather than a photoelectric effect was involved. In German.

PB L 85971. SHIVE, SCOTT L. Investigation regarding voltage coefficient of resistor-suppressors and its relationship to suppression effectiveness. (Detroit Signal Lab Eng Memo D-83-2-5-45) Aug 1944. 44 p. Price: Microfilm-$2.00 - Photostat-$5.00
The objective of this investigation was to determine the voltage coefficient of resistor-suppressors for d-c voltages in the range of six (6) to one hundred thirty-five (135) volts and for instantaneous ignition voltage pulses, and the relationship, if any, between the voltage coefficient and the suppression effectiveness of resistor-suppressors. The tests are described, results and recommendations given. Tables, graphs, and schematic diagrams are enclosed.

PB L 90080. SIEMENS APPARATE UND MASCHINEN G.M.B.H. Hydraulic remote-control equipment for A. A. predictors. (BIOS Microfilm Reel FD 487/46, Frames 1-750, 751-849; BIOS/DOCS/B-106 X). 1943-1945. 848 f. Price: Microfilm-$7.00 - Enlargement print-$86.00
In German.

PB L 90080-S. SIEMENS APPARATE UND MASCHINEN G.M.B.H. Hydraulic remote-control equipment for A. A. predictors. (BIOS Microfilm Reel FD 487/46, abstract). 1943-1945. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 85775. SNOW, R. N. and SEWELL, R. G. S. Magnetic airborne detectors. (AAF T-2 Air Tech Intelligence Review Rept 99) Jan 1947. 43 p. Price: Microfilm-$2.00 - Photostat-$5.00
When the Japanese captured Hongkong in 1941, a magnetic loop, used by the British for harbor defense, was captured intact. It was from this loop that the Japanese Navy got the idea of magnetic detection of submarines. Attempts to mount the loop on ships were unsuccessful, therefore, the problem of magnetic airborne detectors was attacked in June 1942. The project was given high priority. Further developments of this magnetic airborne detector and final results are described in this report. Twenty-one figures are included.

PB L 90052. TELEFONBAU UND NORMALZEIT G.M.B.H., BERLIN and FRANKFURT AM MAIN. Correspondence dealing with a tele-punch meter, fuel level indicator, type of soldered fuse and telephone equipment for Flak. (BIOS Microfilm Reel FD 383/46, Frames 1-192; BIOS/DOCS/ADI (K) 87/5). 1944-1945. 192 f. Price: Microfilm-$5.74 - Enlargement print-$21.00
In German.

PB L 90052-S. TELEFONBAU UND NORMALZEIT G.M.B.H., BERLIN and FRANKFURT AM MAIN. Correspondence dealing with a tele-punch meter, fuel level indicater, type of soldered fuse and telephone equipment for Flak. (BIOS Microfilm Reel FD 383/46, abstract). 1944-1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 85937. U. S. CAMP COLES SIGNAL LABORATORY. Test set AN/URM-3( ). May 1946. 18 p. Price: Microfilm-$1.25 - Photostat-$2.00
Test set AN/URM-3( ) is the nomenclature applied to a noise meter which was under development at the Coles Signal Laboratory of the Signal Corps Engineering Laboratories. This test set was developed for measuring impulse noise over a frequency range of 0.15 to 40 mc. Diagrams, circuits, and graphs are included.

PB L 85002. U. S. CAMP EVANS SIGNAL LABORATORY. Description of the wave-guide receiver type C 320. (SIGIS Translation 69) n. d. 5 p. Price: Microfilm-$1.00 - Photostat-$1.00
This is a translation of a German document giving description of a funnel-type receiver model C-320. Illustrations are included.

PB L 88004. U. S. CAMP EVANS SIGNAL LABORATORY. Field strength diagram for the ground and space wave of jamming transmitter. (Sic). (SIGIS Translation 71). n. d. 3 p. Price: Microfilm-$1.00 - Photostat-$1.00
This document is a photostat of a field strength diagram for the ground and sky waves of jamming transmitters, obtained from the library of the BHF (Bevollmächtigte für Hochfrequensforschung). The notations, in German, on the diagram, are translated.

Electronics (contd)

PB L 62776-A. U.S. NATIONAL BUREAU OF STANDARDS. INTER-SERVICE RADIO PROPAGATION LABORATORY. Corrections to sun-spot numbers appearing in IRPL-R23. (Rept R23-A) Oct 1945. 2 p. Price: Microfilm -$1.00 - Photostat - $1.00
For IRPL-R23, (PB L 62776) see this Bibliography, v. 5, p. 10.

PB L 88295. VERSCHUUR, J. J. Radio direction finder. Aug 1946. 4 p. Price: Microfilm-$1.00 - Photostat-$1.00
This radio direction finder consists of an automatic compensator which controls the phase of each of the signals received by a system of several antennas in such a way that all these signals have the same phase on arrival at the receiver. Drawings accompany this brief outline. A detailed description is obtainable at: Centre National d'Etudes de Télécommunication, (Section Marine) 24, Rue Bertrand, Paris.

PB L 88023. WESTINGHOUSE ELECTRIC & MANUFACTURING CO., RADIO DIVISION., BALTIMORE, MD. Report of a klystron transmitter for 3000 megacycle operation. (OSRD Rept 210). Nov 1941. 8 p. Price: Microfilm -$1.00 - Photostat -$1.00
The purpose of this report is to describe and give the performance data of a transmitter which uses a klystron tube as a frequency generator of valve lengths in the order of 10 centimeters. A brief discussion of the theory of operation of the klystron tube is given, and the transmitter is described. Tables and illustrations are included.

PB L 86088. WOLFF, HANS-JOSEF. Tests for construction of a time base and impulse key device for light electric measurements (sic). (Accurate Translation Service Rept 35; Naval Res Tech Rept 17) n. d. 21 p.
Price: Microfilm-$1.50 - Photostat-$3.00
This is a translation of a German report on a time-base and impulse-key device for electrical measurement by duration of light impulses. For the purpose of making these electrical measurements, tests were undertaken to facilitate the construction of a device for the production of the time base, for the delayed opening of the impulse-amplifier and for control of brightness of the recording (cathode-ray) tube. An impulse generator connected as a multivibrator and triggered by external impulses supplies two single-tube impulse-amplifiers. One yields the time base, the other a rectangular impulse of steep slope for the two other purposes. Schematic diagrams, circuit diagrams, curves, and illustrations are included.

PB L 91723. ZOLLARS, NEAL I. Portable bridge circuit with AC power supply and rectifier for use with Ramberg accelerator tube. (AAF AMC Eng Div Memo Rept 695-68E). Sep 1947. 12 p. Price: Microfilm-$1.25 - Photostat-$2.00
Conclusions: That a light, portable bridge circuit operating from rectified and regulated 60-cycle, 110-volt supply can be designed for use with the Ramberg Vacuum Tube Accelerometer (see appendix II). That, on the basis of actual tests (see appendix III), this circuit is equal in performance to the previous bridge circuit operating from storage batteries, while excelling it in lightness and convenience. Appendix I - description of circuit and directions for use. Diagram and photographs attached.

Miscellaneous

PB L 86409. AGIL DR. VAAG KOM. -GES., BERLIN-OBERSCHÖNEWEIDE. Type UNIFA Agil welding transformer for 220, 380, and 500V. n.d. 8 p. Price: Microfilm -$1.00 - Photostat -$1.00
Description and operating instructions. Drawings included. In German.

PB L 82295. ALLGEMEINE ELEKTRICITAETS GESELLSCHAFT, BERLIN. Spark generators, amplifiers, oscillators, etc. (FIAT Microfilm Reel 00-49, Frames 300-371). 1937-1940. 71 f.
Price: Microfilm-$2.75 - Enlargement print-$9.00
This FIAT microfilm reel consists of descriptions, operating instructions and illustrations of electric apparatus as listed below. Individual items will be available as enlargement prints only; the entire reel may be purchased in microfilm form for $2.75. Please include PB and frame numbers when ordering individual items from this microfilm reel. In German.

Frames	Title	Price
300-306 PB L 82295	Large AEG stroboscope. n. d. In German. Description, operating instructions and photographs.	$2.00
307-319 327-333 PB L 82295	Light-flash stroboscope for variable frequency. 1937. In German. Description, operating instructions and drawings.	3.00
320-322 PB L 82295	Spark generator Vg/200-3000. 1941. In German. Description, operating instructions and circuit diagram.	2.00
323-326 PB L 82295	Oscillogram registration drum RT 2/30/0,65. 1942. In German. Description and operating instructions.	2.00
334-337 PB L 82295	D-c amplifier VN62. 1940. In German. Operating instructions and circuit diagram.	2.00
338-371 PB L 82295	New materials for magnetostrictive oscillators. 1940. In German. Discussion, tables and diagrams.	5.00

PB L 86082. BECK, HEINRICH and others. Enclosures A-F of NTUE Restr.Ltr. Ser. 70 of 29 Jan 1947. Carbons for searchlights. (Accurate Translation Service Rept 29). 51 p. Price: Microfilm -$2.25 - Photostat -$6.00
This paper contains: searchlight carbons specifications as supplied to the German Army and Navy; description of test arrangements and methods for testing searchlight carbons; composition data and manufacturing instructions for searchlight carbons, and several experimental and test reports from various laboratories in Germany. One graph is included.

*PB L 88364. BETH, R. A. Blaupunkt A.G., homing devices and proximity fuses, Berlin, Ger. (FIAT Evaluation Rept 206). Aug 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Details on this company available in a forthcoming ALSOS report.

*PB L 81574. CAPPER, H. C. Interrogation of Herr Georg Hafergut on electric arc welding. (BIOS Interrogation Rept 477). May 1947. 2 p. Price: Microfilm-$1.00- Photostat-$1.00
Mr. Hafergut is an electrical engineer and director of the firm "Elin A.G." near Graz, Vienna. He has specialized in various improvements in electric arc welding and particularly is associated with the process bearing his name. Subjects discussed were: process Hafergut; butt welding; fillet welding; reinforcing; and special items.

*PB L 81198. CRACE, B. B. and others. Interrogation of Dr. Werner Rath, Porzellanfabrik Kahla and Hescho Ceramic Co., Hornsdorf, Thuringia: Ceramic dielectric materials. (BIOS Interrogation Rept 421). Feb 1947. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
Information obtained concerning electrical characteristics and technical performance of: "Conda T," strontium meta titanate, "Calit," and ceramic silvering.

*PB L 88535. DAVIDSON, MARION and ROWE, FRED. Bosch manufacturing plant for spark plugs, underground factory for airplane parts, Bamberg, Ger. (FIAT Evaluation Rept 29). Jul 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Original brewery vaults varying in depth from 20 to 45 ft. underground used as space for machinery to make airplane engine spark plugs.

PB 85992. DOWJIKOV, A. German ABB breaker tests. Aug 1947. 110 p. (Available from Bonneville Power Administration, Branch of Engineering and Operations, Portland, Oreg., $5.00)
The purpose of the tests was not only to establish the operational characteristics of this particular breaker, but to provide an opportunity for representatives of the American electrical industry to observe this type of breaker in action and by analysis of records obtained during the tests to design an American air-blast breaker which may retain the comparative simplicity of the German prototype and at the same time would be faster (at least 3 cycles), built for higher fault interrupting capacity, and better adapted for interrupting large charging currents of long, high-voltage transmission lines. Appendix I contains operational instructions; Appendix II contains test oscillograms; and Appendix III, curves showing transient pressures, contact travel, etc. The circuit breaker was rated at 220 kv., 2500 mva.

PB L 85682. GERHARDT. Report concerning tests with the 17 T battery. (Accurate Translation Service Rept 49). Oct 1944. 25 p. Price: Microfilm -$1.50 - Photostat -$3.00
The calculations of the running distances and velocities of torpedoes with 17-T batteries required determination of the necessary battery data. The values provided by the AFA, after simple, proportional conversion of the 13-T values, appeared too unfavorable, i.e., the trend of the curve appeared too steep. Tests and comparisons were made, the results are shown in 8 diagrams included in this report. This is a translation from the German of a document from the Torpedo Experimental Laboratory, Gotenhafen Works Technical Dept.

PB L 85753. GERMANY. OBERKOMMANDO MARINE. Fully automatic heavy-duty lamp VJHL 150 K. (Accurate Translation Service Rept 27) Nov 1947. 25 p. Price: Microfilm-$1.50 - Photostat-$3.00
This is a translation of a German document. This searchlight is a self-regulating, direct current, heavy-duty lamp which is mounted inversely, i. e., suspended in the searchlight housing. Technical data, a description of the lamp and its operation are given. 13 figures referred to in the text are omitted. The complete text of the original has not been translated.

PB L 88962. HALBERTSMA, N. A. VON and LIEBT, J. ...W. VAN. Electric bulbs for photographic purposes. 1941. 6 p. Price: Microfilm -$1.00 - Photostat -$1.00
This report, a reprint of an article in "Philips' Technische Rundschau", vol. 6, No. 9, 1941, describes various types of photoflash and flood lamps. Data tables are included. In German.

PB L 86248. HALL, DONALD L. Control and stabilization of clutch servos. Final report. (Manufactured by Barber-Colman Co., Rockford, Ill.). (NDRC 7, Rept 129). May 1945. 114 p. Price: Microfilm -$3.75 - Photostat -$12.00
The body of this report is devoted to the study of the 1/20 hp. servo which was found to be more promising than any of the other servo's tested. The system is analyzed by studying the servo response to a sinusoidal input. The vector ratio of the servo output to the difference between the servo input and output, which is defined as the servo's "transfer function", is plotted in the complex plane and the locus of this function as the frequency is varied is the basis for determining the stability conditions as well as the effect of changing the various servo parameters. Results of the tests made to determine agreement between theory and actual performance follow the theoretical analysis. Diagrams, photographs, drawings, charts, and graphs are included.

*PB L 91547. HOSKINS, E. L. and others. Siemens-Reinger Werke A.G. (dental section), manufacturers of dental X-ray machines and equipment, Erlangen. (FIAT Evaluation Rept 254). Aug 1945. 1 p. Price: Microfilm - $1.00 - Photostat -$1.00
Dental section of the plant operating almost normally.

*PB L 91551. JOCHEM, T. B. Schoeller and Co., electrical control devices, Frankfurt a/Main. (FIAT Evaluation Rept 258). Aug 1945. 1 p. Price: Microfilm -$1.00 - Photostat -$1.00
Manufacture principally small ammeters and voltmeters of cheap grade. Also make packet and toggle switches. No new designs.

*PB L 91539. JOCHEM, F. B. Stotz Apparatenbau, electrical control apparatus, Eberbach. (FIAT Evaluation Rept 245). Aug 1945. 1 p. Price: Microfilm - $1.00 - Photostat -$1.00
At present a small force is engaged in the manufacture of water-proof plug connections.

*PB L 89807. JOCHEM, F. B. Stotz Apparatenbau, electrical control apparatus, Heidelberg. (FIAT Evaluation Rept 310). Aug 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
A list of the products made is given. This equipment is of more or less standard design, however, the overload and timing relays incorporate some features which will be discussed further in a separate report.

*PB L 89823. JOCHEM, T. B. Süddeutche Elektrohandels Gesellschaft, Gebr. Meher, Electrical control apparatus, Stuttgart. (FIAT Evaluation Rept 328). Aug 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
This plant manufactures small magnetically operated mercury switches. Work is precision but not particularly novel in design.

*PB L 91552. JOCHEM, T.B. Voight and Haeffner A.G., electrical control apparatus, Frankfurt a/Main. (FIAT Evaluation Rept 259). Aug 1945. 1 p. Price: Microfilm -$1.00 - Photostat -$1.00
This plant manufactures high and low tension switch gears and simple manual and automatic starters.

PB L 85964. JOHNSON, GUY D., JR. Tests on integrally-shielded and suppressed Champion type RC-10S No. 1283 and AC type 435BA automotive spark plugs. (Detroit Signal Lab Eng Memo D-186-2-5-45) Nov 1944. 13 p. Price: Microfilm-$1.25 - Photostat-$2.00
The purpose of testing the subject spark plugs was to determine whether these experimental models, submitted by the manufacturers on their own initiative, were satisfactory for radio-noise-suppression purposes. It was found that neither the AC integrally-shielded and suppressed spark plug, type 435BA, rated 5,000 ohms, nor the Champion integrally-shielded and suppressed spark plug, type RC-10S No. 1283, rated at 2,000 ohms, is satisfactory for radio-noise suppression.

*PB L 88198. KILPATRICK, J. L. C. A. Schaeffer K. G. (Helius), lighting equipment manufacturer, Hanover, Ger. (FIAT Evaluation Rept 90). Jul 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Two ideas of interest were seen. One, a louvering arrangement of laminated glass, the other, a mirror arrangement for light control.

*PB L 88196. KILPATRICK, J. L. and MUIRHEAD, W. C. Schransenback and Co., lighting equipment manufacturer, Frankfurt am Main, Ger. (FIAT Evaluation Rept 88). Jul 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
This is one of the 3 leaders in the fixture field in Germany. Aside from some interesting designs from an asthetic viewpoint there was little of value from this target.

*PB L 88202. KILPATRICK, J. L. Geer, Kaiser and Co., manufacturer of lighting fixtures, Nehein, Ger. (FIAT Evaluation Rept 94). Jul 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Nothing of special interest as firm made "eye-appeal" fixtures.

*PB L 88199. KILPATRICK, J. L. Karl Pristerer, manufacturer of electrical equipment, Stuttgart, Ger. (FIAT Evaluation Rept 91). Jul 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Main production was a line of wire cable and bus-bar connectors and clamps.

*PB L 88182. KILPATRICK, J. L. Potter and Schultze, lighting fixture manufacturer, Essen, Ger. (FIAT Evaluation Rept 74). Jul 1945. 1 p. Price: Microfilm-$1.00-Photostat-$1.00
Target abandoned. No report.

*PB L 88197. KILPATRICK, J. L. Radium Lamp Works, light source manufacturer, Wipperfurth, Ger. (FIAT Evaluation Rept 89). Jul 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Nothing unusual seen.

*PB L 88181. KILPATRICK, J. L. Sistral Licht, lighting equipment manufacturer, Stuttgart, Ger. (FIAT Evaluation Rept 73). Jul 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Nothing of interest noted.

PB L 85755. LABORATOIRE CENTRAL D'ELECTRICITE, BRUSSELS. Interference measuring equipment. (Accurate Translation Service Rept 24). Feb 1947. 12p. Price: Microfilm -$1.25 - Photostat -$2.00
This communication contains quotations and specifications from "Laboratoire Central d'Electricité, Brussels", for constructing and delivering interference measuring equipment to Leonard W. Thomas, Washington, D.C. Three photographs and one circuit diagram are included.

PB L 87478. MCCARTHY, R. H. and others. Report on Reichsanstalt group dealing with high frequencies. Jul 1945. 8 p. Price: Microfilm -$1.00 - Photostat - $1.00
This is a report on two targets visited in Germany on behalf of T.I.I.C.: (1) The Reichsanstalt group, where frequency calibrations, attenuators, detectors, and dielectric properties of materials of high frequency were discussed; and (2) the Norddeutsche Seekabelwerke, Nordenham, Germany, where submarine and land cables were discussed.

PB L 85967. MCFARLAND, J. L. Effect of physical characteristics on the R-F impedance of bonding jumpers. (Fort Monmouth Signal Lab Eng Memo D-238-2-5-44) Apr 1944. 15 p. Price: Microfilm-$1.25 - Photostat-$2.00
Tests were conducted to determine the effect on the r-f impedance of bonding jumpers caused by differences in: (1) the cross-sectional area; (2) the configuration of cross-sectional area; and (3) the length. The test equipment used and the procedure are described. Results, discussions, and conclusions are given. Photographs, tables, and graphs are included.

PB L 85963. MAGER, R. R. Effects of field capacitance on the operation of vehicular voltage regulators. (Detroit Signal Lab Eng Memo D-38-2-5-45) Aug 1944. 13 p. Price: Microfilm-$1.25 - Photostat-$2.00
The basic objective of this subproject was the determination of whether an FL-13 filter or 0.01 mu f capacitor applied to the field terminal, damages contacts in Auto-Lite or Delco-Remy regulators and, if so, to develop a remedy. Tests and test procedure are described. A detailed analysis of these tests is given and results tabulated in brief form. A schematic diagram and 4 illustrations are included.

*PB L 89708. MARKWICK, A. H. D. Electrical drainage of soil. (BIOS Evaluation Rept 381). Feb 1946. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Brief report on two tests which were conducted: (a) Salzgitter, near station, and (b) Bienum near Saltzgitter.

PB L 86089. PAHL. Naval signaling searchlight for use with high-pressure mercury arcs. (Accurate Translation Service Rept 34) Aug 1944. 15 p. Price: Microfilm-$1.25 - Photostat-$2.00
This is a translation of a German report which deals with the results of developmental work. The results have to do with the optimum reflector optics for the searchlight and with the temperatures which occur in the searchlight under different operating conditions. Illustrations, tables, and graphs are included.

*PB L 89916. PARKER, A. V. Telefonbau u. Normalzeit, Frankfurt am Main: Telephone apparatus and electric clocks.

(BIOS Evaluation Rept 178). Nov 1945. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
Three targets were visited. The main interest was the unusual design of the tachometer. However, this instrument is an unnecessary elaborate and expensive design apart from its comparatively high operating torque and the need for an operating power supply. The characteristics of the generator are interesting and the unit may have a useful application in electronic speed or frequency control circuits, etc. Such a unit has been incorporated in the electrical equipment of certain balancing machines made by Carl Schenck of Darmstadt.

*PB L 88237. REYNOLDS, C. H. and BREUER, J. P. Robert Bosch Werke, magnetos, transformers, fuel injectors, Stuttgart, Ger. (FIAT Evaluation Rept 130). Aug 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Manufacturer of the above named equipment.

PB L 90170. R. L. M. Storage batteries: Instruction book. (BIOS Microfilm Reel FD 702/46, Frames 1-125; BIOS/DOCS/4717 b) 1942. 125 f. Price: Microfilm-$4.00 - Enlargement print-$14.00
In German.

PB L 90170-S. R. L. M. Storage batteries: Instruction book. (BIOS Microfilm Reel FD 702/46, abstract) 1942. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 87474. SIEMENS-SCHUCKERTWERKE A. G., BERLIN. Description and operating instructions for the WE 92d/200 seam welder. Oct 1942. 5 p. Price: Microfilm-$1.00 - Photostat-$1.00
In German.

PB L 87473. SIEMENS-SCHUCKERTWERKE A.G. Description and operating instructions for Z 42 auxiliary equipment for the LAM 40 automatic welder. Nov 1943. 4 p. Price: Microfilm -$1.00 - Photostat -$1.00
In German.

PB L 85756. SIEMENS-SCHUCKERT WERKE, A.G. Siemens searchlight-housing G 150 D in searchlight-lafette C/37. (Accurate Translation Service Rept 14.) n.d. 32 p. Price: Microfilm -$1.75 - Photostat -$4.00
This translated manual describes the main component of the search-light housing which are: Mirror with frame, housing, fully automatic inverted high-power lamp, labyrinth screen and shutter-glass. Operating instructions are also given. Seven views of the search-light, three schematic diagrams, and one overall circuit diagram are also included.

*PB L 89805. SNYDER, C. L. and ODARENKO, T. M. Technische Hochschule, Darmstadt, Prof. Dr. Phil. Rudolf Brill, Anorganische und Physicalische-chemie. (FIAT Evaluation Rept 308). Aug 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Information on semi-conducting dielectric materials and use of selenium in rectifiers. Results will be discussed in the final report.

PB L 81740. U. S. NAVAL RESEARCH LABORATORY. German nickel-cadmium cells - examination of CRE No. 6564. Sep 1945. 18 p. Price: Microfilm-$1.25 - Photostat-$2.00
At the Naval Research Laboratory, Washington, D. C., an examination was made of small-size nickel-cadmium cells forwarded by the U. S. Naval Technical Mission in Europe. The batteries were investigated with regard to their method of assembly and their characteristics under various conditions. Although no information about the rated capacity of these cells were available, the tests that were made indicate that these cells do not have as good characteristics as those advertised for other nickel-cadmium batteries. Photographs and graphs are included.

PB L 90194. WIRTSCHAFTSGRUPPE ELEKTRIZITÄTS-VERSORGUNG DER REICHSGRUPPE ENERGIEWIRTSCHAFT DER DEUTSCHEN WIRTSCHAFT. Electricity economy in the German Reich. Directory of public utilities and private firms. (BIOS Microfilm Reel FD 852/46, Frames 1-776; BIOS/DOCS/681 Docs. Centre/Bag 1 C 21 via CCOA, GHD 2d) 1938. 435 f. Price: Microfilm-$7.00 - Enlargement print-$45.00
In German.

PB L 90194-S. WIRTSCHAFTSGRUPPE ELEKTRIZITÄTS-VERSORGUNG DER REICHSGRUPPE ENERGIEWIRTSCHAFT DER DEUTSCHEN WIRTSCHAFT. Electricity economy in the German Reich. Directory of public utilities and private firms. (BIOS Microfilm Reel FD 852/46, abstract) 1938. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 89607. WIRTSCHAFTSGRUPPE ELEKTROINDUSTRIE, BERLIN. Supply catalog for the German electrical industry. Jul 1937. 578 p. Price: Microfilm -$7.00 - Photostat - $58.00
This publication includes a subject index, an organization chart of electrical firms by groups, a list of products and their manufacturers, a list of trade marks and trade names, and their owners, and a list of electrical manufacturers.
In German.

PB L 89619. WOLVERINE, B.M.G. Experiences with aluminum electrical conductors in aircraft (Project no. M 13). Summary report. (AMC Rept F-SU-1156-MD). Nov 1947. 14 p. Price: Microfilm-$1.25 - Photostat-$2.00
German wartime trends are indicated. Most of the technical problems experienced in the use of aluminum conductors were solved. Several tables evaluating corrosive reaction between aluminum and other metals are given. Sketches and descriptions of some of the common German terminals suitable for use with aluminum wire are presented.

FOOD AND KINDRED PRODUCTS

PB L 89296. GEDDES, W. F. and BICE, C. W. The role of starch in bread staling. (AMC Rept 17-10). Nov 1946. 117 p. Price: Microfilm-$3.75 - Photostat-$12.00
A review and annotated bibliography of the scientific and technological literature in which the following points are treated: why bread-staling is a problem, the meaning of bread-staling, methods of evaluating staling, theoretical aspects of starch and its retrogradation, past work contributing staling theories, technology and control of bread-staling, and a suggested program of future research.

PB L 90057. INSTITUT FÜR LEBENSMITTELFORSCHUNG, MUNICH and BOTANISCHES INSTITUT DER TECHNISCHEN HOCHSCHULE, DARMSTADT. Food and vitamin research. (BIOS Microfilm Reel FD 399/46, Frames 1-10; BIOS/BOCs/CIOS/CC). 1945. 10 f. Price: Microfilm-$1.00 - Enlargement print-$2.00
In German.

PB L 90057-S. INSTITUT FÜR LEBENSMITTELFORSCHUNG, MUNICH and BOTANISCHES INSTITUT DER TECHNISCHEN HOCHSCHULE, DARMSTADT. Food and vitamin research. (BIOS Microfilm Reel FD 399/46, abstract). 1945. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 89974. KIHARA BIOLOGICAL INSTITUTE OF PLANT GENETICS, KYOTO. Polyploid fruits and vegetables. n. d. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
This document is a description of the method used by the Kihara Biological Institute in developing 4x and 3x polyploid fruits and vegetables. In English.

PB L 90073. PAECH, KARL and LOESER, ERWIN. The conservation of vegetables. Part I: Biological principles and the production of frozen conserves in practice. (BIOS Microfilm Reel FD 458/46, Frames not numbered; BIOS/BOCS/ ...). 1941. 97 f. Price: Microfilm-$3.25 - Enlargement print-$11.00
In German.

PB L 90073-S. PAECH, KARL and LOESER, ERWIN. The conservation of vegetables. Part I: Biological principles and the production of frozen conserves in practice. (BIOS Microfilm Reel FD 458/46, abstract). 1941. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 90074. PREUSSISCHE VERSUCHS- UND FORSCHUNGSANSTALT FÜR MILCHWIRTSCHAFT, KIEL. Annual reports: 1939-1940 and 1940-1941. (BIOS Microfilm Reel FD 471/46, Frames 1-80; BIOS/BOCs/GBI-4505). 1939-1941. 80 f. Price: Microfilm-$2.75 - Enlargement print-$9.00
In German.

PB L 90074-S. PREUSSISCHE VERSUCHS- UND FORSCHUNGSANSTALT FÜR MILCHWIRTSCHAFT, KIEL. Annual reports: 1939-1940 and 1940-1941. 1939-1941. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 85434. RIEDEL, L. Heat sterilization of canned food. Part II: Application. Mar 1947. 34 p. Price: Microfilm -$1.75 - Photostat -$4.00
Part I of this treatise pointed out the possibility of calculating the temperature curve at the center of the cans at a given temperature curve at the surface. So that the prerequisites for mathematical derivations will be fulfilled in practice and so as to determine the heat conductivity of different foods to be preserved, it was necessary in making the tests to carry on measurements in the center of the cans during sterilization. Only the process used in making the measurements is described here, while the results of the experiment will be discussed in the next section. Curves and graphs are included. This is a translated article.

*PB L 88806. RIETZ, CARL A. Obstverwertung Hummel and Co., Winnenden bei Stuttgart, (FIAT Final Rept 1297). Mar 1948. 23 p. Price: Mimeo -$.75
This report is intended to supplement two previous investigations into the mechanics of operation involved in the processes of this fruit juice plant. A detailed description of the process for producing apple juice and bottling same is given and illustrated by 17 photographs.

PB L 89716. SUPREME COMMANDER FOR THE ALLIED POWERS, NATURAL RESOURCES SECTION. Collection of 1947 fall crops in Japan. (Preliminary Study 18). Nov 1947. 50 p. Price: Microfilm-$2.00 - Photostat-$5.00
The quantity of food available for world import through mid-summer of 1948 is sharply limited. Requirements of deficit nations exceed those of either 1945 or 1946. The effect of foreign demand on the resources and price levels in the United States is increasing. In view of these developments the necessity for successful collection and distribution of 1947 fall crops in Japan cannot be overemphasized. Defensible quotas have been established for the fall crop collection program. If fulfilled, the quotas will make more 1947-produced indigenous food available for rationing than was available from the 1945 or 1946 crops. Producer prices are fully defensible on the basis of a newly constructed general parity index. The liberalized incentive goods program is under closer scrutiny by the Central Government than heretofore. More stringent black-market controls are in operation. Arrayed against these favorable factors are strong economic pressures and the inevitable confusions growing out of fundamental institutional reforms, which will render the fulfillment of fall crop quotas a difficult problem. In the midst of these counteracting influences, Military Government units can apply the experiences of previous collection efforts in exercising surveillance to assure the fulfillment of quotas and stimulate excess-quota deliveries.

PB L 85171-S. U. S. OFFICE OF TECHNICAL SERVICES. INDUSTRIAL RESEARCH AND DEVELOPMENT DIVISION. Chemical literature survey prepared during an investigation directed toward industrial utilization of salmon waste. n. d. 216 f. Price: Microfilm-$6.25 - Enlargement print-$23.00
It was found that many reports in the literature were general in nature and thus the usual filing methods would be inadequate and inefficient. Therefore, a punched card cross-reference system was set up dividing fish data into four groups: (1) anatomical portion, (2) chemical constituents, (3) uses, (4) operations. A detailed subheading break-down in these groups makes it possible to readily separate specific data as desired. The cards list title, author, and periodical followed by an abstract of the subject material. This report supplements PB L 85171 (abstracted in v. 8, p. 121, this Bibliography).

INSTRUMENTS (PROFESSIONAL, SCIENTIFIC AND CONTROLLING)

PB L 90048. AMMONIAKWERK MERSEBURG G.M.B.H., LEUNA-WERK, LEUNA. Electric temperature control equipment in the Leuna hydrogenation works. (BIOS Microfilm Reel FD 334/47, Frames 1-88; BIOS/BOCS/Admiralty PG 21893 a - b/NID). 1941-1942. 88 f. Price: Microfilm-$3.00 - Enlargement print-$10.00
In German.

PB L 90048-S. AMMONIAKWERK MERSEBURG G.M.B.H., LEUNA-WERK, LEUNA. Electric temperature control equipment in the Leuna hydrogenation works. (BIOS Microfilm Reel FD 334/47, abstract). 1941-1942. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

Instruments (contd)

PB L 90063. ARDENNE, MANFRED VON. Electronic microscope. (BIOS Microfilm Reel FD 417/46, Frames 1-19; BIOS/BOCS/CIOS/CC). 1944. 19 f. Price: Microfilm-$1.25 - Enlargement print-$3.00
In German.

PB L 90063-S. ARDENNE, MANFRED VON. Electronic microscope. (BIOS Microfilm Reel FD 417/46, abstract). 1944. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 86090. BÖHM, HERBERT. Description of measuring devices for determining the UR-Index light sources. (Accurate Translation Service Rept 33; Naval Res Dept 15). Apr 1944. 13 p. Price: Microfilm -$1.25 - Photostat -$2.00
This is a translation of a German report describing a simple measuring device developed for the determination of the UR-index of light sources and illuminating appliances, particularly search-lights. Two types of instruments suited for laboratory and field instruments are described. Both were calibrated through connection to a filament-lamp of known black body temperature and to a light source of known intensity. Two diagrams, a photograph, and a graph are included.

*PB L 89072. DAWSON. Interrogation of Dr. B. von Borries: Electron-microscopes. (BIOS Interrogation Rept 886). Aug 1947. 4 p. Price: Microfilm-$1.00 - Photostat-$1.00
The information gained from this interview, and the points outlined in this report, resulted in a considerable improvement in the day-to-day performance of the Hampstead Siemens microscope.

PB L 86087. GERMAN NAVAL OBSERVATORY. Operating manual for the EK and GS installation on board ship. (Accurate Translation Service Rept 37). Sep 1941. 13 p. Price: Microfilm -$1.25 - Photostat -$2.00
This is a translation of an installation and operating manual prepared by the German Naval Observatory. The EK installation serves for the automatic compensation of deviations caused by MES (Magnetic Self Protection). It becomes operative when the MES is switched on and becomes automatically inoperative when the MES is switched off. The purpose of the MES - counter current (GS installation) is to recreate the same deviation curve of the compass after the MES has been switched off. Therefore of necessity, the GS installation is connected with the MES switch. Seven illustrations, with the German text translated, are included.

PB L 90054. HEERESWAFFENAMT-PRUEFWESEN and PHYSIKALISCH TECHNISCHE REICHSANSTALT. Precision measuring instruments. (BIOS Microfilm Reel FD 401/46, Frames 1-127; BIOS/BOCS/CIOS/CC). 1942, 1944-1945. 127 f. Price: Microfilm-$4.00 - Enlargement print-$14.00
In German.

PB L 90054-S. HEERESWAFFENAMT-PRUEFWESEN and PHYSIKALISCH TECHNISCHE REICHSANSTALT. Precision measuring instruments. (BIOS Microfilm Reel FD 401/46, abstract). 1942, 1944-1945. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 88088. I.G FARBENINDUSTRIE A.G., LUDWIGSHAFEN. UR Spectrograph with compensation. n.d. 32 p.
Price: Microfilm -$1.75 - Photostat -$4.00
This report consists of 31 drawings. Negatives of 29 of the drawings are included.

PB L 88954. LEHR, ERNST. Electrical device for measurement of propeller torque without slip rings. (Forschungsbericht 26). Dec 1943. 32 p. Price: Microfilm -$1.75 - Photostat $4.00
This German Navy research report describes a device installed and successfully operated on a destroyer for 500 hours. Drawings and wiring diagrams are included. In German.

PB L 90169. MAIHAK, H., A. G., HAMBURG, GERMANY. Electric compressed air-valve EPV-A1. (BIOS Microfilm Reel FD 701/46, Frames 1-45; BIOS/BOCS/4717 E) 1944. 45 f. Price: Microfilm-$2.00 - Enlargement print-$6.00
In German.

PB L 90169-S. MAIHAK, H., A. G., HAMBURG, GERMANY. Electric compressed air-valve EPV-A1. (BIOS Microfilm Reel FD 701/46, abstract) 1944. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

MACHINERY (EXCEPT ELECTRICAL)

PB L 74804, PB L 74807, PB L 74816, and PB L 84593. AGFA KAMERA WERKE, MUNICH, GERMANY. Drawings of plant and equipment. (FIAT Microfilm Reels G-229 to G-232, inclusive, Frames 3930-7005) 1934-1944. Prices are as follows:

PB No.	Reel No.	No. of Frames	Price: Microfilm	Price: Enl. Print
L 74804	G-229	925	$6.00	$93.00
L 74807	G-230	885	6.00	88.50
L 74816	G-231	769	6.00	77.00
L 84593	G-232	495	6.00	51.00

These four reels contain drawings without explanatory text. Among the drawings are building construction plans, a water purifying plant and towers, an auditorium, a cellulose processing plant, a boiler house and other buildings of the "Vistra" film factory at Wolfen. Included are drawings of machinery, individual machine parts and chemical equipment, circuit diagrams and wiring and piping schematics. Whole drawings are reproduced on a single frame and may not be easy to read when reproduced. In addition, some of the frames are of poor drawings and these may not reproduce well. Legends are in German.

PB L 78651-S. AUXILIARY controlled pressure and temperature regulators, with two-way pressure balanced single seating valve. (Supplement to PB 78651, v. 7, p. 205). (FIAT Final Rept 1076, Supp: FIAT M 100). Mar 1934. 4 p. Price: Microfilm -$1.00 - Photostat -$1.00
This translation of a reprint from "Heizung und Lüftung" Mar. 1934, describes regulators designed by H. Sandvoss, director of Samson Apparatebau A.G., Frankfurt A.M. Drawings are included.

*PB L 89728. BARLOW, F. O. and others. Technical High School, Stuttgart. (BIOS Final Rept 188, Item 19,

Machinery (contd)

26). Jul-Aug 1945. 25 p. Price: Microfilm-$1.50 - Photostat-$3.00
This Technical High School is divided into three branches: (a) main building in 10 Keplestrasse, (b) material testing establishment, and (c) internal combustion engine research establishment. Each branch was investigated and certain personnal interrogated. Appended to the report are: (A) sketch of Woydt 2-stroke sleeve valve engine diagramatic sketch, and (B) photographs, with keys.

*PB L 88093. BELLISS AND MORCOM, LTD. Design of centrifugal turbo-compressors and turbo-blowers. Report on Dr. F. Kluge. (BIOS Interrogation Rept 677). Dec 1947. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
Certain features are mentioned; however, the designs do not embody any completely novel features of a patentable character.

PB L 90072. BERGEDORFER EISENWERK A. G., ASTRAWERKE, BERG. Drawings of refrigerating equipment. (BIOS Microfilm Reel FD 467/46, Frames not numbered; BIOS/DOCS/GBI/4505). 1943-1945. 58 f. Price: Microfilm-$2.25 - Enlargement print-$7.00
In German.

PB L 90072-S. BERGEDORFER EISENWERK A. G., ASTRAWERKE, BERG. Drawings of refrigerating equipment. (BIOS Microfilm Reel FD 467/46, abstract). 1943-1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 90149. HERMANN BERSTORFF MASCHINENBAU-ANSTALT G.M.B.H., HANNOVER, GERMANY. Rubber and plastics processing machinery. (BIOS Microfilm Reel FD 645/46, Frames 1-390; BIOS/DOCS/ B 100 and 107 K) 1937-1943. 390 f. Price: Microfilm-$7.00 - Enlargement print-$40.00
In German, French, Spanish and English.

PB L 90149-S. HERMANN BERSTORFF MASCHINENBAU-ANSTALT G.M.B.H., HANNOVER, GERMANY. Rubber and plastics processing machinery. (BIOS Microfilm Reel FD 645/46, abstract) 1937-1943. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

*PB L 81568. FORD, J. M. and GUNNER, A. M. Suitability of Klingelnberg techniques for small precision spiral bevel gears and small profile-ground worms for instrument drives. Interrogation of Heinrich Schicht, chief engineer of Klingelnberg Sohne, Huckeswagen, near Remscheid. (BIOS Interrogation Rept 383). Feb 1947. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
It appeared that Heinrich Schicht was the original designer and patentee of the Klingelnberg bevel gear machine, which dated from 1921. Among miscellaneous information given was production figures for a typical automobile rear axle pinion. This was for the Volkswagen, and the pinion with 7 teeth, 4 module was finished from the chrome-moly. steel blank in 2½ minutes. Another interesting point, a German heavy road vehicle had a rear axle ratio of 4 to 47. This abnormal ratio was satisfactorily handled by the Klingelnberg machines and Herr Schicht stated 50,000 sets had been made during the war.

PB L 90083. GESELLSCHAFT FÜR LINDIS KISMASCHINEN A. G., WIESBADEN. Refrigerating machines: catalogue and 2 layout plans. (BIOS Microfilm Reel FD 506/46A, Frames not numbered; BIOS/DOCS/3438/CIOS/MIRS/105). n. d. 33 f. Price: Microfilm-$1.75 - Enlargement print-$5.00
In English.

PB L 90083-S. GESELLSCHAFT FÜR LINDIS KISMASCHINEN A.G., WIESBADEN. Refrigerating machines: catalogue and 2 layout plans. (BIOS Microfilm Reel FD 506/46A, abstract). n. d. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 90007. HOLZWARTH GASTURBINEN G.M.B.H., MUHLHEIM/RUHR. Gas turbines. (BIOS Microfilm Reel FD 22/46, Frames 1-166; BIOS/DOCS/B106X) 1941-1944. 166 f. Price: Microfilm-$5.00 - Enlargement print-$18.00
In German.

PB L 90007-S. HOLZWARTH GASTURBINEN G.M.B.H., MUHLHEIM RUHR. Gas turbines. (BIOS Microfilm Reel FD 22/46, abstract) 1941-1944. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 85757. HOPPENRATH. Elastic mounting of a Diesel-air compressor on cylindrical helical springs. (Accurate Translation Service Rept 21). n.d. 18 p. Price: Microfilm -$1.25 - Photostat -$2.00
This German report describes a continuous operation test of the elastic suspension of a Diesel air-compressor on cylindrical helical springs for the purpose of ascertaining the behavior of the elastic suspension in continuous service. Photographs, drawings and charts are included.

*PB L 89745. JOBERT, ARTHUR H. and DINGLEY, E. High speed spindles, manufactured by Mayer and Schmidt at Offenbach am Main. (FIAT Final Rept 118). Oct 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
The purpose was to ascertain what this firm was building and using in the field of extremely high speed spindles.

PB L 85676. KRUPP, FRIEDRICH, A. G., ESSEN, GERMANY. Research on high-pressure turbine blades with strong convex blade profile and milled shroud ring. (Accurate Translation Service Rept 45) n. d. 85 p. Price: Microfilm-$3.00 - Photostat-$9.00
In this translation of a German research report, dated Oct. 19, 1943, the following subjects are covered: Shape and material of blades; attachment and arrangement of blades on the rotor; test program; corrosion tests on turbine blade material; static tests for determination of the stress distribution along the surface of the blade profile under bending and tensile load; dynamic tests for the determination of fatigue strength in the range of temperature 20° to 500° C.; over-all evaluation of test results; conclusions from the test results regarding the shape of the turbine blades; S-N diagrams (Wöhler curves) for turbine blades at temperatures 20° to 500° C.; fatigue strength of turbine blades as a function of temperature; and tabulated results of the static and dynamic tests. Tables, drawings, graphs, and diagrams with the German test translated are included.

PB L 87461. KRUPP, FRIEDRICH, GERMANIAWERFT A.G., KIEL, GERMANY. Flexible mounting for the Ju compressor.

Machinery (contd)

Jan 1943. 4 p. Price: Microfilm -$1.00 - Photostat-$1.00
Two detail drawings. In German.

PB L 87462. KRUPP, FRIEDRICH, GERMANIAWERFT A.G., KIEL, GERMANY. Flexible mounting of a Diesel air compressor on helical springs. Sep 1942. 13 p. Price: Microfilm -$1.25 - Photostat $2.00
This report covers tests made at the request of the Naval High Command to determine the behavior of this type of suspension under continuous operations. Drawings and photographs are included. In German.

PB L 85675. MELAN, H. Theoretical and practical investigations of blade vibrations in steam turbines. (Accurate Translation Service Rept 44). 1936. 21 p. Price: Microfilm -$1.50 - Photostat -$3.00
This is a translation of an article which appeared in "Zeitschrift des Vereins Deutscher Ingnieure, Vol. 80, 1937". In the calculation of the vibration of the blades of steam turbines, the most important problem is the determination of the characteristic frequency. Basically, turbine blades fall into two groups, irrespective of the type of turbine, and due to the different tasks these two blade groups experience different stresses. The following subjects are discussed in this article: 1) blades in the high-pressure section; 2) blades in the low-pressure section; and 3) experimental determination of the characteristic frequency. Ten figures are included.

PB L 86388. P.I.V. ANTRIEB WERNER REIMERS K.G., BAD HOMBURG, GER. P.I.V. Variable speed gears systems A and B. n.d. 119 p. Price: Microfilm -$3.75 - Photostat -$12.00
A manual of variable speed gears manufactured by the P.I.V. Antrieb Werner Reimers K.G., Bad Homburg. It contains a description of standard types of gears, operating instructions and principal technical data. Photographs, drawings and tables are included. In German.

PB L 23788-S. SÜDDEUTSCHE ZELLWOLLE A. G., KELHEIM. Original drawings of the "Gru-Gru" rayon staple fiber cutter. (Supplement to PB 7416, vol. 1, p. 580, and PB 23788, vol.1, p. 1403) Apr 1946. 14 p. Price: Microfilm-$1.00 - Photostat-$1.00
An assembly drawing and two detail drawings.

PB L 85674. ZEISS, CARL. Description and operating instructions for the drying apparatus c/1931 for submarines. (Accurate Translation Service Rept 41). Jul 1940. 22 p. Price: Microfilm -$1.50 - Photostat -$3.00
This manual gives complete description and operating instructions for a drying apparatus which serves for drying the air in the interior of submarine periscopes and other devices, provided these devices are equipped with an air entry and an exit-valve for connection with the drying apparatus. Photographs, drawings, and a wiring diagram are included.

MEDICAL RESEARCH AND PRACTICE, INCLUDING CLINICAL APPLICATION OF DRUGS AND PHARMACEUTICALS

PB M 89995. ABERCROMBIE, WARREN F. List of reprints of papers published in the open literature by members of Medical Division and its contractors. (Chemical Corps Medical Div Rept 129). Dec 1947. 15 p. Price: Microfilm-$1.25 - Photostat-$2.00

PB M 88786. ACHORN, GLENWOOD B., JR. and SCHWAB, JOHN L. Method for the aeration of liquid cultures of microorganisms. n. d. 4 p. Price: Microfilm-$1.00 - Photostat-$1.00
As illustrated in Figure II the orifice spager operated at acoustic velocities produced a larger number of smaller bubbles than any other spargers tested, as evidenced by the initial turbidity and the time required for the medium to clear. Figure I shows turbidimeter. This method of aeration will produce many bubbles smaller than 10 microns in diameter as measured by an ocular micrometer.

PB M 90030. ARNETH, JOSEPH. A collection of research papers relating to qualitative haemotology. (BIOS Microfilm Reel FD 219/46, Frames not numbered; BIOS/DOCS/2939) 1936-1944. 416 f. Price: Microfilm-$7.00 Enlargement print-$43.00
In German.

PB M 90030-S. ARNETH, JOSEPH. A collection of research papers relating to qualitative haemotology. (BIOS Microfilm Reel FD 219/46, abstract) 1936-1944. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB M 89713. DOAK, BEATRICE W. and LAMANNA, CARL. On the antigenic structure of the bacterial spore. n. d. 22 p. Price: Microfilm-$1.50 - Photostat-$3.00
The present series of experiments have been directed toward a more complete understanding of the spore in its relation antigenically to its mother cell, and toward the reconciliation of the data of Krauskopf and McCoy with the experience of other investigators. The following are discussed: materials and methods, experimental results and discussion, and conclusions derived.

PB M 90028. DOMAGK, GERHARD and HEGLER, CARL. Chemotherapy of bacteriological infections. (BIOS Microfilm Reel FD 224/46, Frames not numbered; BIOS/DOCS/CIOS 2939) 1944. 235 f. Price: Microfilm-$6.75 - Enlargement print-$25.00
In German.

PB M 90028-S. DOMAGK, GERHARD and HEGLER, CARL. Chemo-therapy of bacteriological infections. (BIOS Microfilm Reel FD 224/46, abstract) 1944. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB M 84177. ERLANGEN, GERMANY. UNIVERSITY. A collection of doctors' theses. (FIAT Microfilm Reel C 215, Frames 6380-7406). 1938-1940. 1027f. Price: Microfilm -$7.50 - Enlargement prints - $104.00
The theses reproduced on this FIAT microfilm reel and listed below will be available as enlargement prints. Please include PB and frame numbers when ordering individual items from this reel. In German.

Frames	Title	Price
6380-6389 PB M 84177	Duration of treatment in cases of leg fractures fastened by means of screws. By Georg Mormert. 1940. In German.	$2.00
6390-6397 PB M 84177	Drugs used in air-raid protection. By Hugo Monnerjahn. 1940. In German.	2.00
6398-6411 PB M 84177	The so-called internal granulomata. By Arthur Münch. 1940. In German.	3.00
6412-6416 PB M 84177	Hematotympanon after adenotomy. By Bruno Neumann. 1940. In German.	2.00
6417-6431 PB M 84177	Resorptive function of the granulation of Pacchiono in cases of intramenin-geal hemorrhages. By Hans Neumayer. 1940. In German.	3.00
6432-6446 PB M 84177	A case with transposition of the big vessels deformation of the ventricular septum and the auro-ventricular valves of the heart. By Bernhard Nonhof. 1940. In German.	3.00
6447-6456 PB M 84177	Influence of the grain size upon resis-tance of garden mold (containing spores) to steam. By Erika Pannwitz. 1940. In German.	2.00
6457-6466 PB M 84177	Cases of diphtheria at the Würzburg pedia-tric hospital during 1929-1938. In Ger-man.	2.00
6467-6509 PB M 84177	Thrombosis and embolism in obstetrics. By Marie-Louise Petzalis. 1939. In German.	6.00
6510-6538 PB M 84177	Benign ovarian tumors. By Heinz Werner Pick. 1939. In German.	4.00
6539-6547 PB M 84177	Facial lupus and eyes. By Hermann Quinkler. 1940. In German.	2.00
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PB M 84180. ERLANGEN, GERMANY, UNIVERSITY. A collection of doctors' theses. (FIAT Microfilm Reel D-126, Frames 1-1053) 1936-1939. 1053f. Price: Microfilm-$7.00 - Enlargement print-$107.00. The theses reproduced on this FIAT microfilm reel and listed below will be available as enlargement prints. Please include PB and frame numbers when ordering individual items from this reel. In German.

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PB M 90069. HOCHREIN, M. Rheumatic diseases. (BIOS Microfilm Reel FD 458/46, Frames not numbered; BIOS/DOCS/CIOS/MIRS/BB). 1942, 1944. 126 f. Price: Microfilm-$4.00 - Enlargement print-$14.00
In German.

PB M 90069-6. HOCHREIN, M. Rheumatic diseases. (BIOS Microfilm Reel FD 458/46, abstract). 1942, 1944. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB M 85005. HOLTHUSEN, HERMANN and others. Radiology, diagnostic and therapeutic. (FIAT review of German science, 1939-1946). 1947. 297 p. Price: Microfilm-$7.00 - Photostat-$30.00
This publication, prepared by Hermann Holthusen as senior author, plus seven others, summarizes the research which was conducted in this field in Germany during the war years. The contents of the book are presented under the following headings or titles: (1) General. (2) Biology (mutational effects of rays). (3) Diagnosis - General, technique. (4)

Medical Research (contd)

Diagnosis - Skeleton. (5) Diagnosis - Thoracic organs. (6) Diagnosis - Digestive organs and other internal organs. (7) Diagnosis - Nerves and blood vessels. (8) Diagnosis - Special methods of investigation (luminous field photography, tomography, foreign body localization, and X-ray motion picture photography). (9) Diagnosis - Special fields (oto-laryngology, urology, gynecology, and obstetrics). (10) Therapy - Techniques (X-ray and radium). (11) Therapy - Benign conditions including blood diseases and lymphogranulomatosis. (12) Therapy - Malignant tumors. A bibliography and a listing of the other volumes in this series are included. In German.

PB M 89714. LAMANNA, CARL and DOAK, BEATRICE W. Antigen-antibody reaction with type A botulinum toxin. n.d. 41 p. Price: Microfilm-$2.00 - Photostat-$5.00

The purification and crystallization of type A botulinum toxin has permitted the identification of the toxin as a complete and simple protein. In the process of characterizing the toxin as completely as possible, a serological study was undertaken, and the data acquired constitute the present report. Tables and graphs attached.

PB M 85004. SCHMIDT, HANS. Bacteriology and immunology. (FIAT Review of German Science, 1939-1946). 1947. 164 p. Price: Microfilm-$5.00 - Photostat-$17.00

This publication covers the research in Germany in these fields during the war years. The first section of the publication deals with (A) general and (B) special bacteriology. Part A (general) discusses the metabolism of microorganisms, counting methods, and bacterial antagonisms. Part (B) (special) covers bacteria of the Salmonella group, coli bacteria, dysentery bacteria, streptococci, pneumococci, staphylococci, gonococci, meningococci, whooping cough bacillus, influenza bacilli, tetanus bacilli, gaseous edema bacilli, anthrax bacilli, Brucella bacteria and leptospira. A supplement to this chapter on bacteriology deals with animal poisons (bees, snakes and scorpions) and helminths (trichina, taenia and filaria). The second section of the publication (Immunology) deals with (A) immunity and (B) anaphylaxis and allergy. Part A (immunity) is further broken down into these subchapters: General, inhibines and bacteriocides, and immunity of the new-born. Part B (anaphylaxis and allergy) is also broken down into the following subchapters: General, appearance, allergy of the gastro-intestinal canal, various allergies, special forms of the allergy, hay fever, diagnosis of allergy, desensitisation and anti-anaphylaxis, treatment (reticulin), and serum diseases. A bibliography and a list of the other publications in this series are included. In German.

PHOTOGRAPHIC AND OPTICAL GOODS (INCLUDING PHOTOGRAPHIC PROCESSING)

*PB L 89076. ANGUS, ARTHUR W. and others. Report on the firm of Carl Zeiss, Jena. (CIOS Item 28, File XXXIII-51). Dec 1945. 189 p. Price: Microfilm-$5.50 - Photostat-$19.00

This report covers investigations into the various aspects of the activities of the Carl Zeiss organization of Jena and several of their associated factories and kindred organizations.

PB L 88020. BOON, JOSEPH L. Recording cameras made for Section 5.5, NDRC. Final report. (OSRD Rept 4255). Sep 1944. 8 p. Price: Microfilm -$1.00 - Photostat -$1.00

This report covers the work done by the Eastman Kodak Company in building a recording camera for the Bureau of Standards to be used in the testing of "birds". After 12 cameras had been completed, it was decided that this method of recording the data was not sufficiently better than other units made at the hydraulic laboratory to justify the additional cost, so further work by the Eastman Kodak Co. was discontinued. Two drawings are included.

PB L 89647. BRIGGS, G.H. and GODFREY, G.H. A method of welding glass optical components: Application to the manufacture of the Australian National Standards Laboratory aircraft spotters' goggles. (Australian Tech Papers Rept 805). Jun 1944. 4p. Price: Microfilm -$1.00 - Photostat -$1.00

A method is described of uniting glass surfaces by a two-stage heating process which is applicable in the case of flat surfaces of only moderate optical quality. The method has been applied to the manufacture of the lenses of the National Standards Laboratory aircraft spotters' goggles.

PB L 89644. COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH. NATIONAL STANDARDS LABORATORY. PHYSICS SECTION. Preliminary experiments on de-adaption effects of red and white light at low intensity. (Australian Techn. Papers Rept 814). Aug 1943. 6p. Price: Microfilm $1.00 Photostat $1.00

The time of recovery after exposure to a glare source of large angular area (about 45°) for different times (up to 10 minutes) for red and white light of levels of 0.1 to 0.001 e.f.c. physical foot candles has been determined. The results indicate that the time of recovery after exposure to red light is about half as long as that after exposure to white light.

*PB L 89864. GROSS, MALVERN J. Herraeus Quarzglas Werk, manufacture of fused quartz, Hanau. (FIAT Evaluation Rept 375). Aug 1945. 1 p. Price: Microfilm -$1.00 - Photostat -$1.00

This is the only plant in Germany (none in the U.S.) manufacturing an optical quality of fused quartz for prisms, lenses, plates. The process was investigated in detail and will be described in a final report.

*PB L 89940. HOLMES-HIGGIN and ELLIS, C. A. P. Ed. Liesegang, Düsseldorf: Enlargers, epidiascopes, etc. (BIOS Evaluation Rept 219). Dec 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00

Mention is made of war products and pre-war output.

*PB L 89873. LIEBMANN, G. Electron microscopy. Interrogation of Dr. von Borries. (BIOS Interrogation Rept 712). Jul 1947. 3 p. Price: Microfilm-$1.00 - Photostat-$1.00

Conclusion: - Dr. von Borries was found co-operative and prepared to give information but we feel that we can not learn very much from him except on a few points in the handling of specimens, etc., in which he specializes and on which he is preparing his books.

*PB L 91538. ROSE, CHESTER E. and WHITE, DEANS R. Chemische Werke Stoess G.m.b.H., manufacture of photographic gelatines, Eberbach. (FIAT Evaluation Rept 244.) Aug 1945. 1 p. Price: Microfilm -$1.00 - Photostat-$1.00

Photographic gelatine manufactured by this company was sold, by sample, as gelatine mixture of bone and hide.

*PB L 91565. ROSE, CHESTER E. and WHITE, DEANE R. Deutsche Gelatin Fabriken, photogelatin, Göppingen, (FIAT Evaluation Rept 273). Aug 1945. 1 p. Price: Microfilm -$1.00 - Photostat -$1.00
Made bone and hide gelatines for photographic industry with phosphates as a by-product. Ammonium polysulfides used as sensitizer for slow gelatines.

*PB L 89817. ROSE, CHESTER E. Deutsche Gelatine Fabrik, photographic gelatine, Schweinfurt. (FIAT Evaluation Rept 321). Aug 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Their equipment and process of manufacture was outlined but did not disclose anything outstanding.

*PB L 91590. ROSE, CHESTER E. and WHITE, DEANE R. Dr. Brehm, Chemische Werke-Stoess of Eberbach, Handschuhsheim, manufacture of photographic gelatine. (FIAT Evaluation Rept 299). Aug 1945. 1 p. Price: Microfilm - $1.00 - Photostat -$1.00
Mention is made of the use of a solution of sodium sulfide, ammonia, and sulfur dioxide as a sensitizer when the gelatine is found to need it.

PB L 76175. SELECTIVE index of the most outstanding drawings and calculations of optical equipment from the Leitz (Ernst) G.m.b.H., Wetzlar, Ger. included in FIAT Microfilm Reels numbered PB 73001 through PB 73198 inclusive. n. d. 32 p. Price: Microfilm-$1.00 - Photostat-$3.00
This index includes (1) a list of film serial numbers, and (2) separate index sheets for Leica cameras and objectives, micro objectives and accessories, and for Panphot photomicrographic apparatus and accessories, with description and drawing numbers, codewords and selling value for each item together with the reels and frame numbers on which they appear.

*PB L 91561. WHITE, J. U. Schott and Genossen, Jena, optical, Heidenheim, (FIAT Evaluation Rept 269). Jul 1945. 1 p. Price: Microfilm -$1.00 - Photostat-$1.00
Data were obtained on the Schott method of coating lenses to reduce reflections by chemically depositing alternate layers of TiO_2 and SiO_2, and on the Schott monochromatic filter.

PHYSICS

General

*PB L 91516. BARNES, R. BOWLING and others. Kaiser Wilhelm Institute of Physics, University Laboratory, Prof. Czerny, spectral measurements (% transmission) on I.R. filters, and transmission of atmosphere, Frankfurt. (FIAT Evaluation Rept 219). Jul 1945. 1 p. Price: Microfilm -$1.00 - Photostat -$1.00
A discussion was conducted on past researches on subject as well as personnel concerned and their present whereabouts.

*PB L 91546. BARNES, R. BOWLING and others. Reichspost Laboratories, Dr. Heimann, director, Dauborn, (FIAT Evaluation Rept 253). Aug 1945. 1 p. Price: Microfilm -$1.00 - Photostat -$1.00
Information was obtained from Dr. Heimann concerning infrared equipment and manufacture of Ailtwandler tubes.

PB L 88797. HERGMANN, L. Supersonic tests, (Veröffentlichung der Reichsstelle für den Unterrichtsfilm zu dem Hochschulfilm C 318). 1939. 8 p. Price: Microfilm -$1.00 - Photostat -$1.00
Accompanying text for an educational film. In German.

PB L 89050. BRITISH INTELLIGENCE OBJECTIVES SUB-COMMITTEE. The entropy hypothesis. (BIOS Halstead Exploiting Centre Rept 5615) Feb 1940. 18 p. Price: Microfilm-$1.25 - Photostat-$2.00
This is a German document, translated by F. Marks, dealing with the premises on which the entropy hypothesis is based, cycles of operations, and behavior of entropy under adiabatic changes of state.

PB L 85002. JOOS, GEORG and others. Physics of solids, Part I. (FIAT Review of German science, 1939-1946). 1947. 236 p. Price: Microfilm -$6.75 - Photostat -$24.00
This publication, prepared by Georg Joos of the "Technische Hochschule, München", as senior author, and by 18 other German scientists, is in three sections. Section 1 on the Structure of Solids, covers methods of structural investigation, crystal and crystal growth, crystal chemistry of non-metallic substances, structure of metals, glasses, synthetics, and of thin films, and the surface structure of solids. Section 2 on the Mechanical Properties of Solids, covers the elasticity and hardness of solids, plasticity of crystalline substances, wave propagation in solids, and internal damping of solids. Section 3 on the Thermodynamics of Solids, deals with the equation of state of solids, specific heat and heat capacity of solids, and phase changes, heat conduction, and diffusion in solids. In German. Table of contents in German, English, and French. A list of FIAT Review titles, covering physics, chemistry, mathematics, medicine, biology, and sciences of the earth, in English, is included.

PB L 91641. KATO, YOSHIO and UTASHIRO, SHINKICHI. New method of measuring the intensity of the earth's magnetic field, n.d. 1 p. Price: Microfilm -$1.00 - Photostat -$1.00
This is a translation of a technical document from the Geophysical Institute, Tohoku University, Sendai, Japan, which describes the above new method briefly and includes a drawing of the apparatus by which the measurement is made.

PB L 86093. KEIL, A. Membrane pressure box gauge... (Accurate Translation Service 36, Pt 2). Dec 1945. 51 p. Price: Microfilm -$2.25 - Photostat -$6.00
This is a translation of a German document from the Naval Chemico-Physical Experimental Institute, Kiel. This paper discusses the so called membrane pressure-gauge, a mechanical measuring device designed for measuring shock-waves and especially detonation pressure waves in water. The beginning worker in the techniques of measuring detonation pressure waves is very much inclined to frown upon the membrane pressure gauge as a too primitive measuring device. The deliberations in this paper are designed to contribute towards overcoming this false attitude towards the pressure gauge in its capacity as a measuring device. Eighteen figures and curves are included.

PB L 63663. KHRISTIANOVICH, S. The plane problem of the mathematical theory of plasticity in the case where the external forces are applied along a closed contour. (David W. Taylor Model Basin Translation RMB-4). 1946. 40 p. Price: Microfilm -$1.00 - Photostat $3.00
This report deals with the fundamental relations based on the Saint - Venant theory, the integrals of the equations of plasticity, the boundary conditions, periodic solutions, multi-sheeted surfaces, and the singular case of an arc AB in the X, Y plane, with continuously varying tangent. This is a translation of a report from Matematicheskii Sbornik 1, 511-534 (1936), prepared by the Applied Mathematics Group. Brown University.

PB L 91642. NAGATA, T. Local geomagnetic anomalies in volcanic regions and their interpretation. n.d. 7 p. Price: Microfilm -$1.00 - Photostat -$1.00
This is a translation of a technical document obtained from the Geophysical Institute, Tokyo University, Tokyo, Japan, covering a systematic magnetic survey during the last ten years in the neighborhood of a number of volcanoes for the purpose of clearing a particular distribution of magnetic field due to volcanoes. Five figures are included.

PB L 91638. RIKITAKE, T. The electrical state of the earth's interior inferred from variations in the earth's magnetic field. Jan 1948. 3 p. Price: Microfilm -$1.00 - Photostat $1.00
This is a translation of a technical document obtained from the Earthquake Research Institute, Tokyo University, Tokyo, Japan, and covers a study of electromagnetic induction by various variations, slow or rapid, in the earth's magnetic field. Two figures are included.

PB L 85821. ROOP, W. P. Bending loads on U. S. S. Cuyama at sea. (David W. Taylor Model Basin Rept 297) May 1931. 32 p. Price: Microfilm-$1.75 - Photostat-$4.00
Gear for recording bending strains was in operation during about 50 days of steaming. Five periods, including all cases except one in which significant bending loads occurred, were selected for detailed study. The data obtained, reduced to terms of bending load in foot tons, are shown in plates I to V. The peculiar features of the method used in obtaining these data are explained and conclusions drawn.

PB L 66215-S. SHORTLEY, GEORGE and others. Numerical solution of axisymmetrical problems, with applications to electrostatics and torsion. Jan 1947. 14 p. Price: Microfilm -$1.00 - Photostat -$1.00
This paper, reprinted from the Journal of Applied Physics, vol. 18, No.1, p.116-129, Jan.1947, represents and extension of the numerical methods for handling partial differential equations in two dimensions, which were developed in recent work on "Numerical Solution of Laplace's and Poisson's Equations, with Applications to Photoelasticity and Torsion". An abstract of this report is covered in PB 66215, vol.5, p.400, this Bibliography.

PB L 63668. SOKOLOVSKII, V.V. Plastic torsion of a shaft of circular cross section and variable diameter. (David W. Taylor Model Basin Translation RMB-11). 1946. 8 p. Price: Microfilm -$1.00 - Photostat -$1.00
An investigation has been made of the equations of plasticity and the equations obtained and the boundary conditions have made it possible to determine the stress distribution in the plastic zone and to construct the characteristics. This is a translation of a Russian report from Prikladnaia Matematika i Mekhanika 9,343-346 (1945), prepared by the Applied Mathematics Group, Brown University.

PB L 80736. SOKOLOVSKII, V. V. The pressure of a plastic solid on a rigid wedge. (David W. Taylor Model Basin Translation RMB-23). 1947. 24 p. Price: Microfilm -$1.00 - Photostat -$2.00
In this report, the pressure distribution under a rigid wedge which is impressed into a plastic solid, is determined under the assumption of plane strain. The plastic displacements are assumed to be sufficiently small so that the deformation of the free surface of the plastic body can be neglected. This is a translation of a Russian report from Prikladnaia Matematika i Mekhanika 4, 19-34 (1940), prepared by the Graduate Division of Applied Mathematics, Brown University.

PB L 85823. U. S. DAVID W. TAYLOR MODEL BASIN, CARDEROCK, MD. Report of observations of roll U. S. S. Pensacola. (Rept 316) Dec 1931. 4 p. Price: Microfilm-$1.00 - Photostat-$1.00
Representatives of the Experimental Model Basin were on board the U. S. S. Pensacola from the last week in August until the middle of November 1931, for the purpose of observing the rolling of that vessel, with especial regard to the effect of the newly installed anti-rolling tanks. Instruments used and measurements obtained are discussed. Two figures showing plotted data of the roll curves are included.

PB L 81728. WUNDERLICH, WALTER. Stresses in membranes subjected to uniformly distributed load. (German Navy-Chemico Physical Exp Lab Tech Rept 42). Dec 1944. 28 p. Price: Microfilm -$1.50 - Photostat -$3.00
This is a translation of a report from the Chemico-Physical Experimental Laboratory of the German Navy. The subject of this study is the calculation of the tearing of the outer hull of a ship under the impact of a detonation-pressure wave of an underwater explosion. Figure 10, of 11 figures included, is omitted.

RUBBER AND RUBBER PRODUCTS

PB L 90084. CHEMISCHE WERKE, G.M.B.H., HÜLS. Polymerisation, synthetic rubber. (BIOS Microfilm Reel FD 507/46, Frames not numbered; BIOS/DOCS/GBI/2892). 1929-1945. 1662 f. Price: Microfilm-$7.00 - Enlargement print-$168.00
In German, English, French and Italian.

PB L 90084-S. CHEMISCHE WERKE, G.M.B.H., HÜLS. Polymerisation, synthetic rubber. (BIOS Microfilm Reel FD 507/46, abstract). 1929-1945. 11 p. Price: Microfilm-$1.25 - Photostat-$2.00
In English.

PB L 90085. CHEMISCHE WERKE G.M.B.H., HÜLS. Synthetic rubber. (BIOS Microfilm Reel FD 512/46. Frames not numbered; BIOS/DOCS/2892) 1937-1944. 1896 f. Price: Microfilm-$7.00 - Enlargement print-$191.00
In German.

PB L 90085-S. CHEMISCHE WERKE G.M.B.H., HÜLS. Synthetic rubber. (BIOS Microfilm Reel FD 512/46, abstract) 1937-1944. 11 p. Price: Microfilm-$1.25 - Photostat-$2.00
In English.

*PB L 87908. REECE, W. H. and others. German general rubber goods industry. Part III. Factory lay-out and plant.

Rubber and Rubber Products (contd)
(BIOS Final Rept 1514, Item 22). Oct-Dec 1946. 422 p. Price: Microfilm-$7.00 - Photostat-$43.00
A total of thirty-three targets were inspected in the British and American Zones. The technical information concerning factory lay-out and plant is given. 184 drawings and photographs are appended. For part I of this report, see BIOS Final Rept 349 (PB L 23858, v. 2, p. 305, this Bibliography); for part II, see BIOS Final Rept 928 (PB L 63603, v. 5, p. 216).

*PB L 89740. SMITH, L. H. and others. Status of I.G. work on the preparation of acrylonitrile at I. G. Farbenindustrie, Gendorf. (FIAT Final Rept 14). Sep 1945. 3 p. Price: Microfilm-$1.00 - Photostat-$1.00
In connection with the various discussions held with I. G. personnel at Gendorf, about polymers and interpolymers, they disclosed the status of their work on a one-stage process for the preparation of acrylonitrile. The work was not claimed to be particularly original and no immediate application for this information in the war effort is foreseen.

PB L 35312 - PB L 35335, PB L 35337 - PB L 35353, PB L 35355 - PB L 35356, PB L 35358 - PB L 35360, PB L 35362 - PB L 35371, PB L 35373 - PB L 35377, PB L 35379 - PB L 35388, PB L 35390 - PB L 35413, PB L 35415 - PB L 35436. U. S. OFFICE OF RUBBER RESERVE, ed. German synthetic reports collected by the T.I.I.C. Microfilm Reel 5841-3.
Because of continued interest in the Rubber Reserve Microfilm Reels 5841-1 through 5841-10, PB 13321 - PB 13330 (see v. 4, p. 500, of this Bibliography), the reports are also being made available individually. The present reports duplicate the contents of the third reel of the series (5841-3, PB 13323). These reports deal mainly with the polymerization and copolymerization of various Bunas, the effects of regulators, activators, accelerators, etc., on the polymerization process, and the chemical and thermal softening of Buna. A number of reports on Buna production without the use of linoleic acid are included. Several reports which have appeared in the whole reel were cancelled because of complete illegibility. Several portions of the reports which are presented herein are difficult to read and will not reproduce well. An index (PB L 35992) to the individual items of Reel 5841-3, listing both the German titles and their English translations, also appears in this issue of the Bibliography. Abstracts of the individual items of the first two reels (5841-1 and 5841-2, PB L 13321 - PB L 13322) have already appeared in this Bibliography (v. 7, p. 968, and v. 8, p. 905, respectively). Abstracts of the individual items of the fourth reel (5841-4, PB 13324) will appear shortly.

PB L 35992. U. S. OFFICE OF TECHNICAL SERVICES, BIBLIOGRAPHY SECTION. Index to Rubber Reserve Microfilm Reel 5841-3, PB L 13323. May 1948. 20 p. Price: Microfilm-$1.00 - Photostat-$2.00
This index gives the PB and Rubber Reserve numbers of the individual items, together with dates, German titles with English translations, authors, paging and prices.

PB L 35312. MEISENBURG. Emulsion polymerization of dissolved butadiene. β-substituted butadiene. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 252) Nov 1937. 4 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
It was noted that when chloroform, ether, benzene, and toluene were used as solvents in the emulsion polymerization of butadiene, the yields were appreciable smaller than when no solvents were used. Other experiments retraced patented processes to produce β-ethyl butadiene from trimethylolpropane → α-ethylacrolein → α-methyl-β-ethyl-allyl alcohol → β-ethyl-butadiene. An attempt was made to produce β-phenylbutadiene by an analogous route. In German.

PB L 35313. SCHMIDT. Comparative studies on Levulkan and Buna S. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 729) Mar 1939. 23 f. Price: Microfilm-$1.00 - Enlargement print-$2.50
The tests include mastication tests, thermal softening tests, and effects of sulfur dosage. Some of the tests were on carbon black mixtures and others on carbon black-free kaolin-siliceous chalk mixtures. Both carcass and tread mixtures were used in the tests. Much of the report is illegible; only the graphs and several tables are legible. In German.

PB L 35314. SCHMIDT. Levulkan-Buna S blends. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 727) May 1939. 5 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Several graphs illustrate the properties of three mixtures of Levulcan-Buna S, two of them used for tire carcass and treads and the third being a special carbon black-siliceous chalk mixture. The remaining frames are illegible. In German

PB L 35315. BECKER. Observations during the polymerization of Buna SS. (Part of Rubber Reserve of Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 166) Aug 1939. 4 f Price: Microfilm-$1.00 - Enlargement print-$1.50
A study was made of the properties of Buna SS containing various concentrations of styrene. In German.

PB L 35316. GARTNER. Technical comparison of three Buna SS materials. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 295) Jan 1940. 35 f Price: Microfilm-$1.25 - Enlargement print-$3.50
Tests were conducted on three Buna SS compositions in order to determine the degree of plasticity, ease of processing and softening, and physical values. Included is a brief report on tests with rubber inner-tubes which were not very inflammable and an excerpt from a report on an agent for protecting ES during storage. The report on ES storage may not reproduce well. In German.

PB L 35317. PROMANDI. Technical comparison of Buna SS (Leverkusen) and Buna SS (Schkopau). (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 350) Jul 1940. 9 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
The report is not very legible and may not reproduce well. In German.

PB L 35318. KONRAD and others. Difficulties in the processing of Buna S. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 354) Sep 1940. 8 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
This item contains a report and correspondence regarding difficulties in processing Buna S in tires. Much of the report is illegible. In German.

PB L 35319. BECKER. Discussion on the polymerization of (Buna) SS by means of "esteramin." (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 164) Oct 1940. 2 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
This report briefly summarizes the results of a study concerning the use of "esteramin" in Buna SS polymerization. The advantages and disadvantages of acid-Buna SS and alkaline-sekol mixtures are compared. In German.

PB L 35320. BECKER. Fourth annual report of the Central Laboratory for Rubber, Group 1, 1942. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 452) n. d. 14 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
The contents of the report are presented under the following headings: Scientific research; polymerization activation; regulators; polymerization; latex; improvement of the adhesiveness of the polymers and increasing the strength of carbon black-free vulcanization products; stabilization and after-treatment; preliminary and intermediate products; and special research. Processes developed in the laboratory during 1942 are listed. A list of patent applications of processes is also given. In German.

PB L 35321. GRAULICH. Annual report for 1941. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 308) Mar 1942. 4 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Yearly report for Group 1 of the Central Rubber Laboratory. The report includes research on the semi-technical production of "esteramin" acid Buna S, acid Buna N, polymerization and condensation of unsaturated thioethers, relation between K-values and rubber properties, materials for polymerization apparatus, and regulators. In German.

PB L 35322. STÖCKLIN. Buna SR. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 831) Mar 1942. 24 f. Price: Microfilm-$1.00 - Enlargement print-$2.50
Buna SR was compared with Buna R, Buna SS, and several samples of Buna S. Buna SR was considered to be as useful as Buna SS for certain rubber goods. However, Buna SR exhibited insufficient elasticity and cold-resistance and was found unsuitable for tires and inner tubes. In German.

PB L 35323. COMPOSITION and properties of the various types of Buna commercially available. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 784) n. d. 12 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
This report briefly lists the composition, properties, manner of production and percent yield of the Buna brands (including Perbunan and Perbunan extra). This item consists of the original 3-page German report followed by an English translation and two carbon copies of the translation.

PB L 35324. KOCH. Buna SR. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 879) Jun 1942. 2 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Comparison of Buna SR with Buna S and Buna SS. The conclusions are similar to those given in an earlier report, PB L 35322. In German.

PB L 35325. BUNA special, MKV 8016. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 644) n. d. 3 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Leaflet describing the properties of this Buna product. In German.

PB L 35326. GRAULICH. Testing of new products in polymerization. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 305) Sep 1942. 3 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Report on tests with dihydronaphthalene, substituted chloroprene, and diazotized substituted aniline derivatives of butadiene as copolymers for butadiene. The last frame may not reproduce well. In German.

PB L 35327. BECKER. Cold-resistant Buna. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 942) Nov 1942. 2 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Letter from Dr. Becker to Dr. Ludwig of the A-plant requesting that tests be made of two cold-resistant Buna mixtures. Two formulas are given to obtain Defo values of 1800 and 500 (both contain 90% butadiene-10% styrene). In German.

PB L 35328. BUNA SW. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 136) Feb 1943. 4 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
A brief discussion of thepropertiea of Buna SW. The product is compared with Buna containing a higher content of styrene. The item consists of a two-page report (one frame illegible) and an illegible carbon copy. In German.

PB L 35329. BLÖCKER. Various polymerization experiments. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 855) Aug 1943. 2 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
The report deals with alkylene oxides as regulators, the relation between the grade of the polymer and yield, and the substitution of sodium hydroxide in Nekal mixtures by organic bases. In German.

PB L 35330. DIRECTIONS for the processing of Buna N. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 393) n. d. 4 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Directions are given for the production of the Buna N processing mixture, and for blends of Buna N with natural rubber, reclaimed rubber and factices. The general properties of Buna N are given. In German.

PB L 35331. DIRECTIONS for the processing of Buna 85. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 391) n. d. 3 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Several compositions are given for processing Buna 85 and for blending it with natural rubber. In German.

PB L 35332. LEAFLET on Buna S III. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 519) n. d. 3 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Leaflet presenting the claims for the product. In German.

PB L 35333. COPOLYMERIZATION. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 150) n. d. 4 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
This is a general discussion of the copolymerization of butadiene with compounds containing double bonds, phenyl groups and carbonyl, cyano, and chloro groups. In German.

PB L 35334. GRAULICH. Annual report 1942. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 300) Feb 1943. 5 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
This report deals with alkaline linoleic acid-free Buna S, acid Buna S, acid Buna S 25, Defo mixtures, anti-scorch, quinones as stabilizers, research on "esteramin" and "ether-amin," polymerization in nitrate solutions, Buna N with reduced nitrile content, and regulators. One frame may not reproduce well. In German.

PB L 35335. GRAULICH. Polymerisation experiments in the presence of sulfur. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 298) Dec 1943. 2 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
The patent claims of a French patent 853479 (duPont) are disputed. Dr. Graulich claims that while processing of chloroprene with mercaptans plus addition of flowers of sulfur might be feasible, addition of sulfur would result in coagulation if butadiene were similarly processed. Report may not reproduce well. In German.

PB L 35337. POLYMERIZATION of dienes and their structure. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 106) n. d. 8 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
The report discusses polymerization with regard to the structure of the components of the polymerization process. Styrene is pictured as the ideal type of active mono-olefin and butadiene as the complementary conjugated diene. In German.

PB L 35338. SCHNEIDER. Annual report, 1943. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 335) Jan 1944. 3 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Annual report of Group 1 of the Central Rubber Laboratory. The report summarizes the research on the following: Carbon tetrachloride as regulator; thermal treatment of Buna; anthraquinone derivatives as stabilizers; production and polymerization of α-substituted acroleins; dehydrogenation of p-diethylbenzene; and acetylated new vinyl compounds containing the OH group. In German.

PB L 35339. BUNA SE. Directions for mixing and processing. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 787) n. d. 2 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Leaflet. In German.

PB L 35340. BOHM. Polymerisation of Buna S by means of chloramide. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 329) Jan 1944. 5 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Under certain conditions, higher polymerization speeds may be attained with hypochlorites and chloramides than with persulfate. Stabilizers such as dodecylphenol and isobutylnaphthol may be added to obtain especially soft products. At higher polymerization temperatures and by the addition of certain sulfur-free regulators, one may attain higher polymerization speeds than are obtained with Diproxid. In German.

PB L 35341. WOLZ. The preparation of Buna 32-types by emulsion polymerisation. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 38) May 1944. 5 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Buna 32-E (100% butadiene) was compared with Buna 32-S (75% butadiene-25% styrene) and Buna 32-SS (55% butadiene-45% styrene). All three products have K-values of 28-32. The two emulsion polymerization products were no better qualitatively than Buna 32-E and in addition were more expensive to produce. In German.

PB L 35342. WOLZ. Perbunan W. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 53) May 1944. 4 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
The report discusses the production, properties and processing of Perbunan W. This compound is compared with Buna SK-10. Part of the report will not reproduce well. In German.

PB L 35343. INFORMATION on the German rubber industry and their products. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 897) n. d. 17 f. Price: Microfilm-$1.00 - Enlargement print-$2.00
Some information is given on production, testing, and sources of supply of rubber and rubber articles, accelerators, plasticizers, and other compounds used in rubber. The information is presented in the form of answers to questions. Several frames will not reproduce well. In German.

PB L 35344. TROPEL. The Ludwigshafen polymerisation process. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 110) Jul 1944. 7 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
A general description is given of the plant and process for the production of Buna. The use of Diproxid, Nekal, and fatty acid are also considered. Several small tables may not reproduce well. In German.

PB L 35345. KLEIN. State of the Schkopau polymerisation process. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 108) Jul 1944. 12 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
The report discusses production of Buna 8½, S 3, S 4, the numbered Bunas 32 and 85, technical problems in the production of Buna S and problems of raw materials. In German.

PB L 35346. WULFF. Development of the four-step process in Schkopau with special regard to yield and calculation. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 102) Jul 1944. 8 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Report on Buna production at Schkopau. The first quarters of 1940 and 1944 have been chosen for purposes of comparison. In German.

PB L 35347. BUNA S 25 with K-value 30-35. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 941) n. d. 1 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
A short table gives the composition of the mixture which has value as a substitute for Plastikator 32. In German.

PB L 35348. MEIS. Technical details of the Hüls Buna polymerisation. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 109) Jul 1944. 3 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
The report deals briefly with recovery of the monomers (butadiene and styrene), quantity and pressure regulation in the polymerizations at the new plant (No. 188), and operating procedure in the polymerization of Buna S and Buna R. Diagrams to which reference is made in the report are not included. In German.

PB L 35349. BUNA SW. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 520) n. d. 3 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Leaflet presenting claims for the product. Graphs illustrate recoil elasticity, flow, modulus of elasticity, and dynamic damping. In German.

PB L 35350. FLOW sheet of polymerisation with explanatory text. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 776) Apr 1945.

10 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Brief description of the production of Buna (S, SS, SR, and S 3) including recovery of unreacted butadiene and styrene. Tables give the composition of and raw materials for these Buna types. This item consists of a three-page report in German in duplicate, an English translation, and a flow sheet.

PB L 35351. KLEIN. Raw materials necessary per 100 kg of Buna. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 940) Jun 1945. 1 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
A table gives the requirements for the production of Buna 32 and Buna 85, and for the production and processing of Buna S 3. In German.

PB L 35352. SYNTHETIC rubber "Buna." (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 392) n. d. 5 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
A general and non-technical description of the properties and uses of Buna R. In German.

PB L 35353. CONTINUOUS polymerization of Buna S. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 547) Sep 1937. 1 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Brief comparison of the continuous and batch processes. Advantages and disadvantages are given. In German.

PB L 35355. FALK. Annual report, 1942. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 195) Jan 1943. 3 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Annual report of the "A-Fabrik" dealing with production of Buna S and Perbunan. In German.

PB L 35356. MÜHLHAUSEN. Progress report for 1943. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 324) Jan 1943. 4 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Progress report of Group 1 of the Central Rubber Laboratory. In German.

PB L 35358. TUBE polymerization. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 503) n. d. 3 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
A sketch, illustrating this type of Buna S polymerization, is presented, together with an accompanying text. In German.

PB L 35359. PREPARATION of Buna R by a continuous method. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 888) Jan 1944. 8 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
This report describes the research which was carried out in order to convert the batch process into a continuous process. One frame may not reproduce well. In German.

PB L 35360. WOLZ. The continuous polymerization of Buna SW 10. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 98) Mar 1944. 4 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Part of the report is barely legible and will not reproduce well. In German.

PB L 35362. BLÖMER. Polymerization with addition of radicals. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 899) Sep 1942. 4 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Experiments deal with effects produced by triphenylmethylazobenzene, "diazoessigester," and tetraphenylsuccinonitrile. The compounds were tested as activators in the polymerization of Buna S. Only two frames (tabulated results) are legible. In German.

PB L 35363. BLÖMER. Polymerization with addition of radical-forming substances. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 856) Aug 1943. 4 f. Price: Microfilm-$1.00 Enlargement print-$1.50
Experiments deal with the regulator effects produced by addition of "diazoessigester," phenylazotriphenylmethane, and tetraphenylsuccinonitrile in acid polymerization of Buna S. Other experiments deal with the effects produced by radicals such as triphenylmethyl, diphenyl-mono-biphenylmethyl, and α-naphthyldibiphenylmethyl in the polymerization of dimethylbutadiene. In German.

PB L 35364. BLÖMER. The effect of radicals or radical-forming substances on the polymerization. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 851) Aug 1944. 4 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
The report discusses the effects produced by radicals from the following compounds: Diazomethane, nitrosomonomethylurea, nitrosomethylurethane, "diazoessig ester" (diazoacetic acid ethyl ester), triphenylmethylazobenzene, and tetraphenylsuccinonitrile. These compounds were tested in the polymerization of styrene. Much of the report is illegible. In German.

PB L 35365. HAGEN. Comparison of various Schkopau Buna samples, starting mixtures of which differed in linoleic acid content. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 377) Nov 1938. 7 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Several portions of the report may not reproduce well. In German.

PB L 35366. GRAULICH. Break-down of Buna S containing no linoleic acid. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 372) Nov 1938. 1 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Tests showed that the softening of Buna S could not be brought about by linoleic acid alone, at temperatures and time required by normal Buna S. In German.

PB L 35367. WOLLTHAN. Buna S containing no linoleic acid. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 539) Mar 1943. 3 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
The report discusses difficulties encountered in production of linoleic acid-free Buna S. The samples of Buna S were prepared in both enamaled and lead-lined kettles. The use of Diproxid in polymerization is also considered. In German.

PB L 35368. OETTNER. Buna S, containing no linoleic acid. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 643) Dec 1942. 8 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Several samples of linoleic acid-free Buna S from Leverkusen, Ludwigshafen, and Schkopau were tested in the tire division of Leverkusen. All samples had Defo values of 2800-3600. The linoleic acid-free Buna S in general was as good as normal Buna S and exhibited better welding properties. The effect of linoleic acid upon weldability is demonstrated. In German.

PB L 35369. WOLZ. Buna S, containing no linoleic acid. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 177) Dec 1942.
6 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
The report discusses the effect of linoleic acid-free emulsifier on the quality of the polymer and the relation between the linoleic acid-free emulsifier autoclave material, speed of polymerization and processing. In German.

PB L 35370. WOLZ. Buna S, containing no linoleic acid. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 200) Aug 1942.
2 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
The question of whether and to what degree the quality of the polymer is dependent upon the kind of emulsifying agent used was investigated. The research with Nekal BGX and Nekal BX was conducted in V2A autoclaves. The speed of polymerization was also considered. In German.

PB L 35371. GRAULICH. An attempt to apply the precipitation of carbon dioxide and bisulfite to Buna S containing no linoleic acid. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 303) 2 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Continuation of the research described in Rubber Reserve Report 200, PB L 35370. The precipitation tests show that the behavior of linoleic acid-free Buna S is analogous to that of normal Buna S. The technical difficulties brought about by the supplementary addition of iron paraffinate can be avoided by previous addition of 0.5 parts paraffin fatty acid and precipitation by iron salts. The use of catalysts reduces the quantity of Nekal. In German.

PB L 35373. HOLZRICHTER and FALK. The continuous polymerization of Buna S containing no linoleic acid. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 199) Aug 1942. 8 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
An investigation was made of the following: Polymerization with Nekal BX dry, and Nekal BGX; production of polymers having different yields; effect of regulators; working up latices; and break-down behavior. In German.

PB L 35374. BECKER. Discussion on acid Buna S. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 147) Jul 1942. 3 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
This report summarizes in outline form the points covered in the meeting held on July 17, 1942 regarding testing of Buna S. In German.

PB L 35375. GRAULICH. Further development of acid Buna S. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 307) May 1942.
9 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
The desired polymers can be obtained by strong regulators without an appreciable decrease in rubber properties. The processing capacity is improved by mixture of strongly regulated latices. The production of polymers especially suited for these mixtures (flow Defo-values) is possible by regulating with the aid of the K-value curves. In German.

PB L 35376. GRAULICH. The acid polymerization of Buna N. (Part of Rubber Reserve Microfilm Reel 5841-3 PB 13323) (Rubber Reserve Rept 302) Oct 1942.
4 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Comparison of acid and alkaline polymerization of Buna N. An equivalent product can be produced on plant-scale by acid polymerization. The speed of polymerization of acid Buna N mixtures is higher than with alkaline mixtures. In German.

PB L 35377. ROSETTI. Properties of polymerized linseed oils. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 432) Feb 1941.
14 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
An investigation was made of the properties of stand oil, lithographic varnish oil and blown oil. The blown oil could be distinguished from the other two oils but the stand oil and lithographic varnish oil could not be differentiated with certainty. This report is a translation of an Italian report. In German.

PB L 35379. BECKER. Starting mixture containing no linoleic acid. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 151) Jun 1942. 1 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
A brief report on Buna S production. In German.

PB L 35380. MEETING on Buna at the Kohlhof in Heidelberg on July 29-31, 1944. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 100) Jul 1931. 18 f. Price: Microfilm-$1.00 - Enlargement print-$2.00
Minutes of the meeting are reproduced herein. The various phases of butadiene production from acetylene, the production of styrene and acrylonitrile, and the polymerization process were discussed. An index of the individual reports which were presented at the meeting is given, but the reports themselves are not included. In German.

PB L 35381. BECKER. Meeting concerning fatty acids from oxidized paraffin at Oppau. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 155) Oct 1941. 3 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
The report deals with the production, application, and analysis of the fatty acids and their esters. In German.

PB L 35382. MEISENBURG. Polymerization regulators. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 259) Mar 1937. 5 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
A study was made in the hope that regulators could be found that were superior to Diproxid for the polymerization of chlorobutadiene, Buna and Buna copolymers. The report gives the results of tests with the following: Ditolyltetrasulfide; dibenzoic acid ethyl ester tetrasulfide; diisopropylxanthogenmonosulfide; dimethylxanthogendisulfide; tetraphenylhydrazine; and α,α-diphenyl-β-trinitrophenylhydrazine. In German.

PB L 35383. GRAULICH. Studies on the control of polymerization. (Part of Rubber Reserve Microfilm Reel

5841-3, PB 13323) (Rubber Reserve Rept 299) Jun 1943. 3 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Preliminary results of tests of new regulators which were compared with Diproxid. Legibility of the report is very poor and it will reproduce poorly. In German.

PB L 35384. DENNSTEDT. Diazoates as regulators in the co-polymerization of butadiene emulsions. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 320) Jun 1943. 1 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
A table gives the composition of a butadiene-styrene mixture (75:25) with persulfate-diazotate as regulator. Report is barely legible and will not reproduce well. In German.

PB L 35385. SCHWECHTEN. Annual report 1941. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 336) Feb 1944. 3 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Annual report of Group 1 of the Central Rubber Laboratory. The information is presented under the following headings: Regulation of the polymerization; polyphenols for improving the adhesiveness to the fabric; and Perduran-like products. Report is partly illegible and will not reproduce well. In German.

PB L 35386. LOOSMANN. Disorder in the starting mixture of Igetex NN caused by the use of mepasin sulfinate. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 321) Aug 1944. 2 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Polymerization in the sample was much too rapid causing damaging rise of temperature. This could be traced to mepasin sulfinate, which was present in the "Marcolat." Polymerization proceeded in a normal manner after destruction of the mepasin sulfinate. Report barely legible and will reproduce poorly. In German.

PB L 35387. GARTEN. Attempt to ascertain the effect of regulating and chain-branching agents on the structure of polymers. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 312) Oct 1944. 4 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Tests were conducted with Diproxid (regulator) and a chain-branching agent (1,3-butylene glycol diacrylic ester) in the polymerization of styrene. In German.

PB L 35388. BECKER. Discussion on emulsion polymerization. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 140) Nov 1942. 1 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Discussion with Dr. Schoenhöfer of Elberfeld resulted in eleven suggestions for future research. Compounds having known physiological effects might be tested for their effect on polymerization. In German.

PB L 35390. GARTEN. Activating emulsion polymerization by means of reducing agents. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 315) Jan 1943. 7 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
The effect of various reducing agents in the polymerization of Buna S was tested. The importance of water and of oxygen in the polymerization process was also noted. Legibility of report is poor. In German.

PB L 35391. VULCANIZATION of hard rubber linings in hot air. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 457) Mar 1944. 1 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
A brief statement on the manner in which the vulcanization is carried out, and the advantages and disadvantages of the process. In German.

PB L 35392. LOOSMANN. The role of "Marcolat" in the emulsion polymerization with addition of reducing agents. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 35) Jan 1944. 16 f. Price: Microfilm-$1.00 - Enlargement print-$2.00
Ten tables give the results of the investigation. Large portions of the report are illegible. Two of the frames are duplicates. In German.

PB L 35393. GARTEN. Progress report, 1943. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 313) Jan 1944. 3 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Progress report of Group 1 of the Central Rubber Laboratory. The report discusses research on activation of the emulsion polymerization, determination of molecular weight and degree of branching, and miscellaneous matters. Report is barely legible and will reproduce poorly. In German.

PB L 35394. FISCHER. Characterization of the fatty acids developed from oxidized paraffin and used for the alkaline polymerization of Buna S. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 113) Jul 1944. 10 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Report for the Buna meeting on July 29-31, 1944, at Kohlhof. See PB L 35380. In German.

PB L 35395. RAPID polymerization (Buna S) with mepasin sulfinate. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 34) n. d. 14 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Compounds similar to mepasin sulfinate were prepared and their effect tested. Page 1 of the report is missing. Portions of the report are barely legible and will reproduce poorly. In German.

PB L 35396. FALK. Amines as polymerization accelerators. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 275) Nov 1941. 4 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Mono-di- and triethylamine increase the speed of polymerization of Buna N. Aniline, however, is a polymerization poison. Figures obtained in the tests are given. Report may not reproduce well. In German.

PB L 35397. LOOSMANN. Report on the status of the studies on activation of the Buna S polymerization. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 49) Jun 1943. 13 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
The results of the research are given in fifteen tables Several frames may not reproduce well. In German.

PB L 35398. ORT. Polymerization of Buna 85. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323)

(Rubber Reserve Rept 937) Jun 1945. 1 f.
Price: Microfilm-$1.00 - Enlargement print-$1.50
A brief description of the continuous polymerization of the product. In German.

PB L 35399. GRAULICH. Dodecylamine-Buna S rapid polymers. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 376) Nov 1938.
2 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Tables give the evaluation figures for polymers sent for testing. The degree of break-down was insufficient. Report may not reproduce well. In German.

PB L 35400. HOHDE. Softening in a Kiefer-dryer. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 379) Jul 1938. 6 f.
Price: Microfilm-$1.00 - Enlargement print-$1.50
The report presents data on the softening of Buna S in a Kiefer dryer. This product is compared with Schkopau crumb treated in a double walled vessel. Results showed that the Kiefer dryer was suitable for the continuous softening of the crude rubber blanket. The blanket was softened more quickly and evenly than the layer of rubber crumb. In German.

PB L 35401. SCHMAUSS. Batch polymerization of Buna SW 10. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 52) Dec 1943. 2 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Tests of various samples of Buna SW which were polymerized in rosanit-plated, lead-lined and iron kettles. Defo values and K-values are given. In German.

PB L 35402. BECKER. High pressure polymerization. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 51) Jan 1942. 2 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
The report discusses the yield and reaction rate. Copolymerization of butadiene with styrene in a high-pressure autoclave was quite similar to that obtained in a normal polymerization tube regarding speed and quality. Average and optimal values for both polymerizations are given in a small table. In German.

PB L 35403. GRAULICH. Experiments on the regulation of the alkaline polymerization of Buna S starting mixtures. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 310) Dec 1941. 12 f.
Price: Microfilm-$1.00 - Enlargement print-$1.50
In continuation of previous Leverkusen research, a Buna S starting mixture was processed without the use of linoleic acid and by gradual regulation with Diproxid. Increase in break-down could be brought about by addition of hydrocarbon-soluble iron salts. Properties of the linoleic acid-free Buna S are discussed. In German.

PB L 35404. FRANKE. Increasing the yield and reaction rate in the polymerization of Buna S. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 550) Oct 1939. 34 f. Price: Microfilm-$1.25 - Enlargement print-$3.50
The report deals with the following topics: Activation of the speed of decomposition of potassium persulfate; effect of the activator mixture on the speed of polymerization; the effect of accelerated polymerization on the polymer grade; results with the production of Buna S with increased conversion; and results with the production of Buna SS with conversion. One table in very fine print is partly illegible and several similar tables may not reproduce well. In German.

PB L 35405. DESCRIPTION of the process used in working up Buna. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 777) Apr 1945.
4 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
A simple sketch illustrates the procedure for processing the coagulated latex of Buna S, SS, SR, and S 3. In German.

PB L 35406. TROPEL. Measurement of the heat in the polymerization of Buna S. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 384) Mar 1938. 5 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
The report also discusses the relationship between the accelerated reaction and composition of the emulsion. In German.

PB L 35407. SCHMIDT. Report on comparative laboratory studies with regard to Leverkusen and Schkopau Buna SS. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 356) Jun 1940.
17 f. Price: Microfilm-$1.00 - Enlargement print-$2.00
Much of the report is illegible; only the graphs and photographs are legible. In German.

PB L 35408. BÄCHLE. Dispersion in ball mills. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 828) May 1941. 16 f.
Price: Microfilm-$1.00 - Enlargement print-$2.00
Report deals with crystalline sulfur ground in ball mills with porcelain and steel balls. Several graphs compare sedimentation of sulfur particles which were milled for periods of time up to 16 days. Photomicrographs showing particle size are included. Report is not very legible and will reproduce poorly. In German.

PB L 35409. GEER. The loss of hydrocarbons dependent upon the rubber content of the waste liquors. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 543) Jun 1943. 6 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Report discusses the manner in which hydrocarbons, especially styrene is lost. Styrol loss by emulsion formation is considered. Two graphs are partly illegible. In German.

PB L 35410. HOLZRICHTER. Exchange of information between the Buna Works and the Oppau plant regarding plant controls. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 190) Jun 1944.
3 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Report of a meeting held at Ludwigshafen on June 13-14, 1944. The minutes included some discussion on plant controls. Mention was also made of the three separate processes for making butadiene (4-stage, arc, and Reppe processes). In German.

PB L 35411. BÄCHLE. Changes in the properties of Buna during processing, especially during rolling. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 841) Jul 1943. 9 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Films of Perbunan, Perbunan SP, Buna S, and Buna S 10 were processed and studied. Several small portions of individual frames are illegible. In German.

PB L 35412. KLEIN. File note on the Buna S meeting. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 72) Jan 1941. 4 f. Price: Microfilm-$1.00 - Enlargement print-$1.50

Some brief notes on the polymerization process and the substances required for the polymerization. Much of the report is illegible. In German.

PB L 35413. DERNSTEDT and LOGEMANN. Sampling and yield calculation in autoclave experiments. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 849) Aug 1941. 9 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Examples are given of sampling under pressure (constant volume) and sampling without pressure (constant weight). Sample calculations are presented. In German.

PB L 35415. SCHNEIDER. The concentration of aqueous dispersions of organic compounds via the foam phase. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323) (Rubber Reserve Rept 409) Dec 1944. 22 f. Price: Microfilm-$1.00 - Enlargement print-$2.50
Continuation of the research described in Rubber Reserve Report 409, PB L 35417. A literature survey was made of ...tter-churning and similar processes which might have application in the concentrating of latex. In German.

PB L 35416. PROCEDURE for precipitating rubber from latex in order to determine the conversion. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323). (Rubber Reserve Rept 936). Jun 1945. 1 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
In German.

PB L 35417. SCHNEIDER. A new way for concentrating aqueous dispersions of organic substances of high molecular weight. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323). (Rubber Reserve Rept 409). Nov 1941. 10 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
A description is given of an apparatus which consists of a cylindrical vessel equipped with paddles for agitating the dispersion. The dispersions are processed at a temperature below their solidification point. The process is quick and does not affect the dispersion state. Several trial runs using natural rubber, polystyrene, Perbunan and Buna latices are described. Several portions of the report are illegible. In German.

PB L 35418. BECKER. Precipitation studies on Buna S containing no linoleic acid by means of carbon dioxide, acetic acid and bisulfite with or without addition of iron. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323). (Rubber Reserve Rept 167). Oct 1942. 6 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Repetition of tests previously reported in a report dated September 7, 1942. The results of the tests were similar. In German.

PB L 35419. FLOW sheet for continuous processing of Buna S latex. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323). (Rubber Reserve Rept 958). n. d. 1 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Rough sketch of the process. In German.

PB L 35420. MEISENBURG and ROHDE. Thermal softening of Buna S (Diproxid). Regulating and emulsifying agents. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323). (Rubber Reserve Rept 257). May 1937. 6 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
This item consists of two separate reports on the same subject. Report by Rohde dated May 19, 1937 compares Buna S (Diproxid) and its mixtures with chlorobutadiene and Bunem with thermally softened Buna S with regard to strength, abrasion-resistance, and elasticity. Report by Meisenburg dated May 21, 1937 deals mainly with regulators and emulsifiers for Buna S, the results with these substances being given in tables. In German.

PB L 35421. KONRAD. Possibility of softening Buna with phenylhydrazine. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323). (Rubber Reserve Rept 389). Sep 1937. 5 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Report on the process for the softening of Buna S with phenylhydrazine as observed at Harburg Gummiwarenfabrik Phoenix A.G. on a visit to that plant on August 28, 1937. No evaluation of the process was possible, since comparison tests with thermally-softened rubber had not been made. Title page is illegible. In German.

PB L 35422. HAGEN. The greater thermal softening of Schkopau Buna S band compared with the Leverkusen band N 5 produced by continuous polymerization. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323). (Rubber Reserve Rept 375). Nov 1938. 2 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
In German.

PB L 35423. WECKER. Dependence of thermal softening of Buna S on the thickness of the band and the degree of its compression. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323). (Rubber Reserve Rept 374). Nov 1938. 1 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
In German.

PB L 35424. ENGELHARDT. Solubility and softening of Buna S containing no iron. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323). (Rubber Reserve Rept 197). May 1944. 2 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Tests were carried out in order to determine the most favorable conditions for the solubility and softening of Buna SS. The rubber was broken down at 1, 2, 3, 4, 5, 6 atmospheres. Rubber, so treated, was tested for its solubility, with the use of a benzene-gasoline mixture in the ratio of 1:4. K-values were also determined. In German.

PB L 35425. SCHALLER. Experiences in the processing of Buna S Mixture KM3. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323). (Rubber Reserve Rept 183). Feb 1942. 7 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
The study includes work on storage and stabilization of Buna S samples (mixtures KM3 and KM4), and a comparison of Buna S samples from Leverkusen, Hüls, and Schkopau. Determination was made of iron content of rubber samples. In German.

PB L 35426. HAGEN. Easy thermal softening of Buna S in the presence of linoleates of Ca,Mg,Mn,Co,Pb,$FeSO_2$,Na_2S and oxalic acid. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323). (Rubber Reserve Rept 371). Nov 1938. 2 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Results of the tests are given in a table. The first frame which includes the table is partly illegible. In German.

PB L 35427. MEETING on the processing of Buna. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323). (Rubber Reserve Rept 388). Dec 1937. 10 f. Price: Microfilm-$1.00 - Enlargement print-$1.50

Report by Teischinger of Phoenix entitled, "Experiences with chemical breakdown of Buna with reference to ease of processing. In German.

PB L 35428. SCHWERDTEL. Masticating agents for Buna S and Perbunan. (Part of Rubber Reserve Microfilm Reel 5841-3, 13323). (Rubber Reserve Rept 685). Feb 1943. 1 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Nine phenylhydrazine derivatives such as benzaldehyde-phenylhydrazone and N- formylphenylhydrazine in 2 and 5% quantities were compared with Renacit II as masticating agents for Buna S. The same substances, in 3% quantities, were compared with 6% Renacit III as agents for the break-down of Perbunan. In German.

PB L 35429. ECKER. Research on mastication. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323). (Rubber Reserve Rept 701). Apr 1940. 4 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Buna S, Buna 88, and Perbunan were masticated at rolling temperatures of 25°, 50°, 75°, 100°, and 125° C, with and without the addition of β-thionaphthol (Renacit II). It was demonstrated that the desired Defo values could be obtained with proper choice of rolling temperature. In German.

PB L 35430. STUDIES on the phenomena during the thermal softening of Buna S and Buna 88. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323). (Rubber Reserve Rept 886). Jan 1943. 19 f. Price: Microfilm-$1.00 - Enlargement print-$2.00
Report is almost completely illegible. However several legible graphs illustrate 50 minute breakdown of Buna S and Buna 88 and the oxygen absorption at room temperature and at 56° C. Somewhat legible is a literature survey of the autoxidation of Buna rubber and related substances. In German.

PB L 35431. BLÄMER. (1) Experiments to prevent the cyclisation of Buna S. (2) Adhesives for bonding rubber to iron. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323). (Rubber Reserve Rept 853). Jan 1944. 2 f.
Price: Microfilm-$1.00 - Enlargement print-$1.50
Report is not very legible and will reproduce poorly. In German.

PB L 35432. HECKER. Report on a visit to the Buna plant at Schkopau. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323). (Rubber Reserve Rept 134). May 1943. 2 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
The report touches upon the polymerization, stabilization and possible patents for Buna rubber. Report however is rather illegible and will reproduce badly. In German.

PB L 35433. ECKER. Development of a highly cold resistant Buna. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323). (Rubber Reserve Report 270). Oct 1942. 20 f. Price: Microfilm-$1.00 - Enlargement print-$2.00
Tests of a butadiene-styrene mixture (90:10). The tests deal with the plasticity, adhesiveness, vulcanization and mechanical testing, and cold-resistance. Tables and numerous graphs illustrate the report. In German.

PB L 35434. MURKE. Studies on regulation and stabilization by means of oximes. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323). (Rubber Reserve Rept 325). Jun 1944. 5 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Acetonoxime, levulinic acid dodecyl ester oxime, fluorenoneoxime, o-chloro-benzaldoxime, and C_{12}-aldoxime were compared with Diproxid as regulators for Buna S25. The higher oximes plus PBN, phenanthrenequinonemonoxime and acetophenoneoxime were also tested as stabilizers for the Buna S25 latex. It was concluded that oximes had no effect as regulators for the emulsion polymerization of Buna S 25 that they were unsuitable as stabilizers for synthetic rubber and monomeric chlorobutadiene. Phenanthrenequinone-oxime however, was considered useful as a stabilizer. In German.

PB L 35435. WOLZ. Experiments for improving the adhesiveness of Buna S by addition of 2,3-dimethylbutadiene polymer. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323). (Rubber Reserve Rept 178). Dec 1942. 2 f.
Price: Microfilm-$1.00 - Enlargement print-$1.50
Addition of emulsion-polymerized dimethylbutadiene resulted in lowering the rubber properties of Buna S without any improvement of the adhesiveness. In German.

PB L 35436. WIESEMANN. Iron salts as catalysts for the softening. (Part of Rubber Reserve Microfilm Reel 5841-3, PB 13323). (Rubber Reserve Rept 44). Jan 1945. 2 f. Price: Microfilm-$1.00 - Enlargement print-$1.50
Directions are given for the production of a number of organic iron salts (not based on fatty acids) to be used as catalysts in the break-down of Buna rubber. Results of tests with these iron salts are not given as the experiments have not been completed. In German.

TEXTILES AND TEXTILE PRODUCTS

*PB L 89741. SMITH, J. F. and WICKER, D. B. Synthetic fibre-forming high polymers at Kaiser Wilhelm Institut für Physicalische Chemie, Berlin/Dahlem. (FIAT Final Rept 25). Sep 1945. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
Some information gained from Dr. Broser in the field of fiber-forming synthetic polymers.

PB L 82225. FRANCE. MINISTRY OF INDUSTRY. Reports on the German textile industry. (FIAT Microfilm Reel A 314, Frames 8806-9064) 1945-1946. 307 f.
Price: Microfilm-$7.00 - Enlargement print-$32.00
In French.

PB L 82225-S. FRANCE. MINISTRY OF INDUSTRY. Reports on the German textile industry. (FIAT Microfilm Reel A 314, Frames 8806-9064, abstract cards) 1945-1946. 2 p.
Price: Microfilm-$1.00 - Photostat-$1.00
In French and English.

PB L 33537. GENSEL. The "Trubenizing" of wearing apparel. (I. G. Farbenindustrie, Ludwigshafen. Kuteko report) (Frames 38-41 of FIAT Microfilm Reel C 110) Mar 1937. 4 p. Price: Microfilm-$1.00 - Photostat-$1.00
There are essentially two processes of "Trubenizing," i. e. permanently stiffening cuffs and collars without the use of starch. The one is carried out by means of acetyl cellulose, the other by means of thermoplastic vinyl polymers. Both procedures are described and several special methods based on these two procedures are discussed and evaluated. In German. Rights to this process are held by the Trubenizing Process Corporation, 350 5th Avenue, New York 1, N. Y.

*PB L 89742. GUENTHER, E. G. "Cottonin" or cottonized flax. (FIAT Final Rept 27). Sep 1945. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
A very brief report is given of an interview with Adolf Horak concerning method for cottonizing flax for use with other fibers in making weaving yarns.

PB L 90197. TEXTILWERKE S. HENKING G.M.B.H., BERLIN and SEIDENWERK SPINNHÜTTE A. G., APOLDA. Research into the porosity of parachute fabrics. (BIOS Microfilm Reel FD 865/46, Frames 1-67; BIOS/DOCS/ADI (K) 195/43) 1944. 67 f. Price: Microfilm-$2.50 - Enlargement print-$8.00
In German.

PB L 90197-S. TEXTILWERKE S. HENKING G.M.B.H., BERLIN and SEIDENWERK SPINNHÜTTE A.G., APOLDA. Research into the porosity of parachute fabrics. (BIOS Microfilm Reel FD 865/46, abstract) 1944. 1 p.
Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 67454-S. ROCKEL AND CO., ALSFELD, GERMANY. Fulling (milling) machine for hats (4 ferro-prints) (Supplement to PB 67454). (BIOS Final Rept 879, Item 22, supplement; F.D. 30LL/46). n.d. 17 p. Price: Microfilm-$1.00 - Photostat $2.00
This material consists of four outline drawings from Rockel & Co., showing plan, front elevation, longitudinal section, and side elevation of their fulling machine for hats. For PB 67454, see vol. 5, p 511, this Bibliography.

TRANSPORTATION EQUIPMENT

AERONAUTICS

Engines and Propellers

PB L 90201. ARGUS-MOTOREN-GESELLSCHAFT M.B.H., BERLIN-REINICKENDORF. Drawing of the assembly of an unspecified Argus aero-engine. (BIOS Microfilm Reel FD 880/46, Frames 1-1g; BIOS/DOCS/ A. 1. 12. Air Ministry - ADIK Nil) 1936. 9 f. Price: Microfilm-$1.00 - Enlargement print-$2.00
In German.

PB L 90201-S. ARGUS-MOTOREN-GESELLSCHAFT M.B.H., BERLIN-REINICKENDORF. Drawing of the assembly of an unspecified Argus aero-engine. (BIOS Microfilm Reel FD 880/46, abstract) 1936. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 87830. DEINHARDT. High-altitude engine Jumo 222 E/F. (AAF T-2 Translation 563) Jun 1946. 6 p. Price: Microfilm-$1.00 - Photostat-$1.00
This is a translation of a German document. In this report the following subjects are covered: 1) engine characteristics; 2) supercharger; 3) hydraulic coupling; 4) regulation; 5) supercharger drive; and 6) coolant circulation. Two diagrams are included.

PB L 85778. HOWARD, T. W., JR. Engine development projects at Tachikawa Army Air Arsenal. (AAF T-2 Tech Intelligence Review Rept 102) Jan 1947. 41 p.
Price: Microfilm-$2.00 - Photostat-$5.00
This place of power plant work was under supervision of Major General Narishuge Shinano, chief of engine laboratory. The laboratory was subdivided into five groups: engines, carburetors, superchargers, ignition and engine vibration. Mr. Konako was responsible for research and development in connection with engines. It was maintained that four engines were designed by Tachikawa personnel: These were the Ha-200, Ha-45, Ha-46, and Ha-43. The characteristics for these engines are given. Contents of Appendices are as follows: (A) list of all power plant research projects at Tachikawa; (B) airplane engine design; (C) summary of important research projects relative to air-engines; (D) power plant research on new unconventional engines; (E) testing of airplane engines; (F) development chart of aero engines; and (G) specification of engines and equipment tested.

PB L 90211. JUNKERS FLUGZEUG- UND MOTORENWERKE A. G. Handbooks, manuals, and part lists dealing with adjustable air screws, compression regulators, injection equipment, standard parts of engines, repair directives, etc. (BIOS Microfilm Reel FD 909/46, Frames 1-1268; BIOS/DOCS/ADIK (Nil) 76 X 78) 1941-1942. 952 f. Price: Microfilm-$7.00 - Enlargement print-$97.00
In German.

PB L 90211-S. JUNKERS FLUGZEUG- UND MOTORENWERKE A. G. Handbooks, manuals, and part lists dealing with adjustable air screws, compression regulators, injection equipment, standard parts of engines, repair directives, etc. (BIOS Microfilm Reel FD 909/46, abstract) 1941-1942. 3 p.
Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 90209. JUNKERS FLUGMOTOREN G.M.B.H. Material relating to development and experiments on closed circuit engines and special power units (Kreismotor K.M. 6). (BIOS Microfilm Reel FD 905/46, Frames 1-302; BIOS/DOCS/ 49/66(730); 49/68 (730)) 1939-1944. 375 f.
Price: Microfilm-$7.00 - Enlargement print-$39.00
In German.

PB L 90209-S. JUNKERS FLUGMOTOREN G.M.B.H. Material relating to development and experiments on closed circuit engines and special power units (Kreismotor K.M. 6). (BIOS Microfilm Reel FD 905/46, abstract) 1939-1944. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 90212. JUNKERS FLUGZEUG UND MOTORENWERKE A. G., DESSAU. Reports on tests and faults in aero-engine manufacture. (BIOS Microfilm Reel FD 910/46, Frames 1-236; BIOS/DOCS/ADIK 38/72 (636)) 1939, 1945. 228 f. Price: Microfilm-$6.50 - Enlargement print-$24.00
In German.

PB L 90212-S. JUNKERS FLUGZEUG UND MOTORENWERKE A. G., DESSAU. Reports on tests and faults in aero-engine manufacture. (BIOS Microfilm Reel FD 910/46, abstract) 1939, 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

Engines and Propellers (contd)

PB L 90215. KRAUSE, ERNST, & CO., WIEN-BERLIN. Krause finshoring in aero-engine construction. (BIOS Microfilm Reel FD 949/46, Frames 1-79; BIOS/DOCS/ADIK Nil) n. d. 67 f. Price: Microfilm-$2.50 - Enlargement print-$8.00
In German, Russian, Italian, and English.

PB L 90215-S. KRAUSE, ERNST, & CO., WIEN-BERLIN. Krause finshoring in aero-engine construction. (BIOS Microfilm Reel FD 949/46, abstract) n. d. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 90205. TECHNISCHE HOCHSCHULE, STUTTGART. Axial-flow supercharger. (BIOS Microfilm Reel FD 893/46, Frames 1-56; BIOS/DOCS/College of Science Tank Technology STT/12/35 G 10327) 1944. 56 f. Price: Microfilm-$2.25 - Enlargement print-$7.00
In German.

PB L 90205-S. TECHNISCHE HOCHSCHULE, STUTTGART. Axial-flow supercharger. (BIOS Microfilm Reel FD 893/46, abstract) 1944. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

Rockets and Jet Propulsion

PB L 89010. BMW FLUGMOTORENBAU GESELLSCHAFT, MUNICH, GERMANY. Description of BMW 003 turbojet engine. (AAF-T-2 Translation 772). Oct 1947. 42 p. Price: Microfilm-$2.00 - Photostat-$5.00
Design and operating principles of air intake, compressor, combustion chambers, turbine, and adjustable bullet discussed. Fuel and lubrication systems, starter unit, and accessories analysed. Installation instructions given with procedure for engine ground and flight starting operations. Data on thrust, fuel consumption, and temperatures.

*PB L 81324. COMBINED INTELLIGENCE OBJECTIVES SUB-COMMITTEE. Interview with Prof. Vieweg of Darmstadt, May 14, 1945 on the A-4 rocket. (CIOS ARCO Rept 35A). May 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
The following aspects of the control problem are mentioned: (1) lubrication and bearings, (2) potentiometers for gyros and other units, and (3) fuel flow measurements.

PB L 90190. DEUTSCHE VERSUCHSANSTALT FÜR LUFTFAHRT, BERLIN-ADLERSHOF. Bending measurement of heat chambers. (BIOS Microfilm Reel FD 869/46, Frames 1-7; BIOS/DOCS/ADIK/195/65) 1943. 12 f. Price: Microfilm-$1.25 - Enlargement print-$3.00
In German.

PB L 90190-S. DEUTSCHE VERSUCHSANSTALT FÜR LUFTFAHRT, BERLIN-ADLERSHOF. Bending measurement of heat chambers. (BIOS Microfilm Reel FD 869/46, abstract) 1943. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 89205. GROTH, E. High speed tunnel measurements on the "Natter" (rocket propelled interceptor), including a description of the methods of evaluation used in A 2. (BIOS Rept 101; Repts and Translations 157). Sep 1946. 43 p. Price: Microfilm-$2.00 - Photostat-$5.00
Three component measurements have been made on a model of the Natter in the 2.8 m diameter High Speed Wind Tunnel of the LFA Brunswick. The results of these tests are reproduced graphically and discussed in this report. The main result is that the tailplane becomes ineffective at high speeds because of the wake from the wing and is insufficient for stability in its present position. The report also contains a complete description of the methods of measurement and reduction of model results as normally used in the A2 tunnel, and was written mainly for this purpose.

PB L 89015. HARBICH, LEOPOLD. Arctur flying-wing project. (AAF-T-2 Translation 789). Feb 1948. 38 p. Price: Microfilm-$1.75 - Photostat-$4.00
Three proposed designs for a delta-wing-type, high-speed transport airplane are presented. Midwing arrangement was tested on a model in free flight and showed good stability. Both fuselage and wings are of monocoque construction. Main design uses turbojets which are completely concealed within the wing, while two auxiliary designs show possible propeller arrangements. Component parts of structure are analyzed and design and performance data are listed.

*PB L 89729. HERBERGER, C. and KELLER, A. Manufacturing process for fabrication of turbine blades used in 109-003 BMW jet propulsion engine. (CIOS Item 5, File XXX-59). n. d. 4 p. Price: Microfilm-$1.00 - Photostat-$1.00
The purpose of this report is to outline the various steps and stages in the processing of this blade from raw material to its finished state.

PB L 74076. HIRTH MOTOREN G.M.B.H., STUTTGART, GERMANY. Turbojet engine 109-011 A-0. (FIAT Microfilm Reel CC 294, Frames 1-101) 1945-1946. 101 f. Price: Microfilm-$2.00 - Enlargement print-$10.50
This microfilm was prepared by FIAT investigators in Germany. The film includes an index of reports on the 109-011 A-0 engine. A short summary of the origin of the project for making such an engine is given together with the results of tests and description of manufacture of the hollow blades for the turbine. Drawings and performance curves are included. In German.

PB L 89006. HORN. Comparison between actual and calculated performances of Me 262 jet fighter bomber. (AAF-T-2 Translation 3403). Oct 1947. 13 p. Price: Microfilm-$.25 - Photostat-$2.00
Performance rechecks made on thrust, flight weight, flight path, climb, and computed polars to acquire accurate data and to eliminate divergent opinions of various manufacturers. Differences between actual and calculated measurements given in detail and apparent reason for variations explained. Flight performance results indicated by curves, accompanied by clarifying text material.

PB L 87808. KAPPUS. Tailless construction of the turbo-jet fighter compared to the standard model. (AAF-T-2 Translation 555). Jun 1946. 22 p. Price: Microfilm-$1.50 - Photostat-$3.00
This is a translation of a German document dated Feb. 1944. This paper covers an investigation as to whether the tailless model jet airplane offers advantages recommending its use in the construction of high performance aircraft. Results of the investigation are given, with six charts and figures included.

Rockets and Jet Propulsion

*PB L 89724. KELLEY, BARTRAM and MULVEY, HUGH J. Doblhoff jet-propelled helicopter. (CIOS Item 5, File XXXI-5). Aug 1945. 49 p. Price: Microfilm-$2.00 - Photostat-$5.00
This report covers the research work conducted by Friedrich Doblhoff and associates from Oct. 1943 to the end of the war in Europe. In addition to body of the report, included as appendices are numerous photographs, and a translation of Doblhoff's paper "Specific fuel consumption of helicopters with jet propulsion." The 4 jet-driven helicopters, WNF 342, represent successive steps in attacking a problem experimentally. The 2nd and 4th machines, V 2 and V 4, are the only ones extant. The main contribution of Doblhoff consisted in getting the jets at the tips of the blades to work properly.

*PB L 88339. KLEMPERER, W. B. A. Ott Co., devices for computing trajectories of missiles, etc. Kempten, Ger. (FIAT Evaluation Rept 181). Aug 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Technical details about the trajectory computing differential equation machines were obtained.

*PB L 88357. KLEMPERER, W. B. Aerodynamic Institute Aachen (AIA) dispersal, Deutsche Versuchsanstalt für Luftfahrt (DVL) dispersal, facilities for development of guided missiles, Sontofen, Ger. (FIAT Evaluation Rept 199). Aug 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Interrogated Prof. W. Linke and Prof. A. Weise. Obtained details on wind tunnel tests of guided missiles; facilities for various tests on same. Information on contents of existing reports.

*PB L 88341. KLEMPERER, W. B. Askania Werke, autopilots for guided missiles, Konstanz, Ger. (FIAT Evaluation Rept 183). Aug 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Information gained on technical details on the development of automatic pilots for several guided missiles, especially V1, on difficulties and remedies found and on various related gyroscopic devices.

*PB L 88345. KLEMPERER, W. B. Automotive Research Institute of Stuttgart, work on missile propulsion, Kirchheim (Teck), Ger. (FIAT Evaluation Rept 187). Aug 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Interrogated Prof. Kamm concerning work on stability of dollies, and on the project of a pulsing carbon dust jet engine.

*PB L 88351. KLEMPERER, W. B. Bayerische Motoren Werke (BMW), Brucksahl branch, Ger. (FIAT Evaluation Rept 193). Aug 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Technical details about Salbei engines for various guided missiles, their design, manufacturing, and testing.

*PB L 88349. KLEMPERER, W. B. Bayerische Motoren Werke (BMW), jet engine test stands, Munich-Allach, Ger. (FIAT Evaluation Rept 191). Aug 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Technical details on engine tests stands and their operation.

*PB L 88356. KLEMPERER, W. B. Catapult facility Alatsee (dispersal of FGZ Stuttgart) Lake Alatsee, Füssen, Ger. (FIAT Evaluation Rept 198). Aug 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Technical information about catapults and testing of guided missiles. Target being disbanded.

*PB L 88352. KLEMPERER, W. B. Deutsche Forschungsanstalt für Segelflug (DFS), development and facilities for guided missiles, Ainring village, Ger. (FIAT Evaluation Rept 194). Aug 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
A wealth of detailed technical information on automatic and remote controls, dynamics, propulsion, testing, and techniques of guided missiles and training devices for them.

*PB L 88343. KLEMPERER, W. B. Deutschevversuchsanstalt f. Luftfahrt (DVL) dispersal laboratory, mathematical treatment of automatic controls of missiles, Saulgau, Ger. (FIAT Evaluation Rept 185). Aug 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Information on mathematical and technical details about treatment of automatic control problems of missiles and a general survey of facilities for special structural stress analysis research.

*PB L 88348. KLEMPERER, W. B. Flugfunk-Forschungsinstitut Oberpfannenhofen (FFO), branch Graefelfing, guided missile control, Graefelfing, Ger. (FIAT Evaluation Rept 189). Jul 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Gained technical details of telemetering scheme for Hs missile and of remote control receiver "Papagei."

*PB L 88337. KLEMPERER, W. B. Forschungsanstalt "Graf Zeppelin", information of their work and facilities having a bearing on guided missiles, Stuttgart-Ruit, Ger. (FIAT Evaluation Rept 179). Sep 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Information about wind tunnel facilities, about various bomb and torpedo projects, about parachutes for guided missiles tests.

*PB L 88350. KLEMPERER, W. G. Luftfahrt-Forschungsanstalt München (LFM), wind tunnels and other facilities for development of guided missiles. (FIAT Evaluation Rept 192). Aug 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Technical details regarding wind tunnel work for guided missiles.

*PB L 88338. KLEMPERER, W. B. Luftschiffbau Zeppelin (L.Z.), additional information regarding work for guided missiles and last lighter-than-air activities. (FIAT Evaluation Rept 180). Aug 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Information about parts manufactured for, and tests of V2; about development of collapsible tanks and about instruments and devices for airships was obtained.

*PB L 88344. KLEMPERER, W. B. Mathematical and Physical Institutes of T. H. Aachen, information on their work on differential analyses, on supersonic and aerodynamic research and the bearing of this work upon guided missiles. Ummendorf, Ger. (FIAT Evaluation Rept 186). Aug 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Some inkling of new aerodynamic instruments and outline of work on supersonic problems for V2 group was gained.

*PB L 88342. KLEMPERER, W. B. Reichspostforschungsinstitut, television project and infrared research, Konstanz, Ger. (FIAT Evaluation Rept 184). Aug 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Interrogated Dr. George Weiss, Dr. Heinrich Gerwig, and (Ing.) Herr G. Michaelis about technical details on tests with television application to missile Us 293-D.

*PB L 88336. KLEMPERER, W. B. Suddeutscher Kolsbau G.m.b.H., Enzian project, Sonthofen-Hohenstein, Ger. (FIAT Evaluation Rept 178). Aug 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Investigated the Walter jet engine for flying projectiles.

*PB L 88340. KLEMPERER, W. B. V2 testing facility, technical details on same, Oberradrach, Ger. (FIAT Evaluation Rept 182). Aug 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Technical details about V2 ground testing procedure and facilities obtained.

*PB L 88347. KLEMPERER, W. G. Wasserbau-Versuchs-Anstalt (WVA), guided missiles, V2 and pfeilgeschoss, Wasserfall, wind tunnels and other developmental facilities, Kochel, Ger. (FIAT Evaluation Rept 190). Jul 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Information concerning technical details about procedures and techniques developed for V2, pfeilgeschoss, Wasserfall in their design, development and test stages.

PB L 87465. LONGINO, J. C. French experimental jet-propelled aircraft SO-6000. Aug 1946. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
This is a translation of an article appearing in the July 6, 1946 edition of "Aviation Francaise" concerning the French experimental jet-propelled aircraft, the SO-6000. Theoretical characteristics and performance are given.

PB L 90286. LUFTFAHRTFORSCHUNGSANSTALT HERMANN GÖRING. Experiments with rocket motor chambers for oxygen and Diesel oil. (BIOS Microfilm Reel FD 1139/46, Frames 1-21; BIOS/DOCS/HEC/Op 2/561 (See also FD 1131/46)) 1943-1944. 21 f. Price: Microfilm-$1.50 - Enlargement print-$4.00
In English.

PB L 90286-S. LUFTFAHRTFORSCHUNGSANSTALT HERMANN GÖRING. Experiments with rocket motor chambers for oxygen and Diesel oil. (BIOS Microfilm Reel FD 1139/46, abstract) 1943-1944. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 89020. LUTZ, OTTO. Technical thermodynamics of dissociating gas mixtures. (AAF-T-2 Translation 997). Jan 1948. 82 p. Price: Microfilm-$3.00 - Photostat-$9.00
Thermodynamic calculations for high temperatures, such as occur in combustion in Diesel and Otto engines, in combustion chambers of turbojet engines or in rockets are very complicated since the gas composition in this range is a function of temperature and pressure and each change of state is accompanied by a change of mixture, generally heat is combined or freed. In this report several new methods which simplify the calculations are given. These methods are not approximation procedures, but are accurate solutions by graphical-mathematical procedure.

PB L 90253. THE NEW standard propulsion unit Argus AS 411. (BIOS Microfilm Reel FD 1056/46, Frames not numbered; BIOS/DOCS/S.T.T.C. 10405) 1944. 4 f. Price: Microfilm-$1.00 - Enlargement print-$2.00
In German.

PB L 90253-S. THE NEW standard propulsion unit Argus AS 411. (BIOS Microfilm Reel FD 1056/46, abstract) 1944. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

*PB L 89914. PARKER, A. V. Technische Hochschule, Darmstadt; V2 vibration and general vibration research. (BIOS Evaluation Rept 176). Nov 1945. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
The V2's vibration troubles in 1943 applied also to its radio equipment and indicate that little consideration had been given to the robustness of this missile or the radio equipment within. It would appear that no vibration tests were mandatory at this time, perhaps due to ignorance of the conditions encountered.

PB L 90100. PLANUNGSAMT DES REICHSFORSCHUNGSRATES. High speed jet or rocket-propelled bombers. (BIOS Microfilm Reel FD 538/46, Frames not numbered; BIOS/DOCS/FIAT G2, GBI/88/091-g/25) 1945. 15 f. Price: Microfilm-$1.25 - Enlargement print-$3.00
In German.

PB L 90100-S. PLANUNGSAMT DES REICHSFORSCHUNGSRATES. High speed jet or rocket-propelled bombers. (BIOS Microfilm Reel FD 538/46, abstract) 1945. 3 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 89615. SCHMITT, HEINZ H. The controllability of turbojets in reference to flight performance and altitude. (AAF AMC Tech Rept F-TR-2142-ND) Mar 1947 11 p. Price: Microfilm-$1.25 - Photostat-$2.00
Report discusses research problems in attempting fool-proof controls for turbojet propulsion. Inherent low acceleration tends to decrease performance. Overheated turbine blades are another danger. Tactical performance becomes difficult above 30,000 feet especially at reduced speeds, due to faulty combustion. Report explains and suggests solutions of these problems.

PB L 90206. ADLERWERKE A. G. VORM. HEINRICH KLEYER A. G., FRANKFURT/M. Description of standard track wheel system. Adler adjustable seat. Drawings of cog-wheel segments. (BIOS Microfilm Reel FD 894/46, Frames 1-10; BIOS/DOCS/M11/ College of Science Tank Technology STT/12/35 G 10420) 1944. 10 f. Price: Microfilm-$1.00 - Enlargement print-$2.00
In German.

PB L 90206-S. ADLERWERKE A. G. VORM. HEINRICH KLEYER A. G., FRANKFURT/M. Description of standard track wheel system. Adler adjustable seat. Drawings of cog-wheel segments. (BIOS Microfilm Reel FD 894/46, abstract) 1944. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

*PB L 89818. GLOSS, E. E. and others. Fichtel and Sachs A. G., Schweinfurt. Needle bearing manufacturing. (FIAT Evaluation Rept 322). Aug 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
Their main business is the manufacture of automatic clutches, bicycle coaster brakes, and small gas engines. Needle bearings were specials for tank tracks only and has been discontinued.

PB L 90259. HENSCHEL & SOHN, G.M.B.H., CASSEL. Experiments with planet gear box. (BIOS Microfilm Reel FD 1067/46, Frames 143-147; BIOS/DOCS/S.T.T./G. 203) n. d. 6 f. Price: Microfilm-$1.00 - Enlargement print-$2.00
In German.

PB L 90259-S. HENSCHEL & SOHN, G.M.B.H., CASSEL. Experiments with planet gear box. (BIOS Microfilm Reel FD 1067/46, abstract) n. d. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 90250. HENSCHEL & SOHN, G.M.B.H., KASSEL. Six-wheel cross-country lorry. "Drasser" geared ventilator for air-conditioning armoured vehicles. (BIOS Microfilm Reel FD 1051/46, Frames not numbered; BIOS/DOCS/STT/ G/ 3626 & G. 10738) 1939, 1944. 99 f. Price: Microfilm-$3.25 - Enlargement print-$11.00
In German.

PB L 90250-S. HENSCHEL & SOHN, G.M.B.H., KASSEL. Six-wheel cross-country lorry. "Drasser" geared ventilator for air-conditioning armoured vehicles. (BIOS Microfilm Reel FD 1051/46, abstract) 1939, 1944. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 89880 - PB L 89881. JIDŌSHA BUNKA KENKYŪJO. Tōa Jidōsha Nenkan (Tōa Automotive Yearbook). 1941-1942. Paging and prices as follows:

PB No.	Volume	Pages	Price: Microfilm	Photostat
L 89880	1941	587	$7.00	$59.00
L 89881	1942	427	7.00	43.00

These documents are bound volumes, each representing one year's compilation of Jidōsha Bunka Kenkyūjo. The Tōa Automotive Yearbook is divided into several sections: One on government regulations; several on the automotive industry from a geographical standpoint (the world situation regarding automobile development, the automotive situation in Manchuria, North and Central China, the South Seas, Mongolia, etc.); and a magazine section containing articles on various phases of motor vehicle research, trends, and industrial expansion, with reference to all types of motor-driven vehicles including passenger vehicles, trucks, tractors, and military vehicles. In Japanese.

PB L 89876 - PB L 89877. JIDŌSHA GIJUTSU KYŌKAI, TOKYO. Jidōsha Gijutsu (Automotive Technology). Nos. 16, 19. 1943-1944. Paging and prices as follows:

PB No.	Number	Date	Pages	Price: Micro.	Photo.
L 89876	16	Dec 1943	51	$2.25	$6.00
L 89877	19	Jun 1944	46	2.00	5.00

These documents are single issues of a Japanese journal on automobile technology. These two issues contain the following articles: Standard automobile terminology; piston ring research; practical investigations of the lubricating oil used in motors; discussions on the life-span of vehicles using artificial fuels; testing of coal gas vehicles; and an analysis of the comparative braking force of semi-beam winch trucks. In Japanese.

PB L 90218. KLOCKNER-HUMBOLDT DEUTZ A. G., COLOGNE. Drawings of Diesel engine component. (BIOS Microfilm Reel FD 960/46, Frames 1-20; BIOS/DOCS/152 K) n. d. 69 f. Price: Microfilm-$2.50 - Enlargement print-$8.00
In German.

PB L 90218-S. KLOCKNER-HUMBOLDT DEUTZ A. G., COLOGNE. Drawings of Diesel engine component. (BIOS Microfilm Reel FD 960/46, abstract) n. d. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 89887. KŌGYŌ NICHI-NICHI SHIMBUN-SHA, TOKYO. Jidōsha Nenkan (Automotive Yearbook). 1942. 896 p. Price: Microfilm-$7.00 - Photostat-$90.00
This document represents the 1942 compilation of automotive and related information by the Nichi-Nichi newspaper company of Tokyo. The yearbook has the scope of an automobile almanac; its contents as broken down into the following twenty subject headings: (1) Government regulations; (2) production; (3) vehicles; (4) midget automobiles; (5) vehicles using substitute fuels; (6) fuels; (7) market rates; (8) railroads and railroad lines; (9) roads; (10) transportation; (11) communication (traffic) equipment; (12) communication (traffic) regulations; (13) taxes; (14) insurance; (15) employees; (16) educational facilities; (17) literature; (18) related organizations; (19) Manchuria and China; and (20) pertinent legislation. In Japanese.

PB L 90260. M. A. N., AUGSBURG. Experiences in the change-over from M. A. N. lorries from Diesel to gas fuel. (BIOS Microfilm Reel FD 1068/46, Frames 1-14; BIOS/DOCS/S.T.T./G. 10573-4) 1943. 14 f. Price: Microfilm-$1.25 - Enlargement print-$3.00
In German.

PB L 90260-S. M. A. N., AUGSBURG. Experiences in the change-over from M. A. N. lorries from Diesel to gas fuel. (BIOS Microfilm Reel FD 1068/46, abstract) 1943. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 90254. MAY. Reports on motors: Research constructions. (BIOS Microfilm Reel FD 1059/46, Frames 1-14; BIOS/DOCS/S.T.T.G. 10577-8) 1944-1945. 14 f. Price: Microfilm-$1.25 - Enlargement print-$3.00
In German.

PB L 90254-S. MAY. Reports on motors: Research constructions. (BIOS Microfilm Reel FD 1059/46, abstract) 1944-1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 90257. N. S. U. MOTOREN WERKE. Research on the "Novo" air-filter. (BIOS Microfilm Reel FD 1063/46, Frames not numbered; BIOS/DOCS/S.T.T./G. 10857) 1942. 15 f. Price: Microfilm-$1.25 - Enlargement print-$3.00
In German.

PB L 90257-S. N. S. U. MOTOREN WERKE. Research on the "Novo" air-filter. (BIOS Microfilm Reel FD 1063/46, abstract) 1942. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 90256. RHEINMETALL-BORSIG A. G., DÜSSELDORF. Differentials. (BIOS Microfilm Reel FD 1062/46, Frames not numbered; BIOS/DOCS/S.T.T.G. 10569, 70) n. d. 24 f. Price: Microfilm-$1.50 - Enlargement print-$4.00
In German and English.

PB L 90256-S. RHEINMETALL-BORSIG A. G., DÜSSELDORF. Differentials. (BIOS Microfilm Reel FD 1062/46, abstract) n. d. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 90265. SIEMENS SCHUCKERT WERKE A. G. SCHALT WERK/DYNAMO-WERK, BERLIN-SIEMENSSTADT. Electric drive of the VK 4501 P (motor vehicle). (BIOS Microfilm Reel FD 1079/46, Frames 607-630; BIOS/DOCS/STT/ G 10395) 1942. 25 f. Price: Microfilm-$1.50 - Enlargement print-$4.00
In German.

PB L 90265-S. SIEMENS SCHUCKERT WERKE A. G. SCHALT WERK/DYNAMO-WERK, BERLIN-SIEMENSSTADT. Electric drive of the VK 4501 P (motor vehicle). (BIOS Microfilm Reel FD 1079/46, abstract) 1942. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 90251. SIMMERINGER MASCHINENBAU & WAGGONBAU A. G., VIENNA. Development, construction and production of an air-cooled Diesel engine for tanks. (BIOS Microfilm Reel FD 1052/46, Frames 1-19; BIOS/DOCS/STT/G 10418) 1944. 19 f. Price: Microfilm-$1.25 - Enlargement print-$3.00
In German.

PB L 90251-S. SIMMERINGER MASCHINENBAU & WAGGONBAU A.G., VIENNA. Development, construction and production of an air-cooled Diesel engine for tanks. (BIOS Microfilm Reel FD 1052/46, abstract) 1944. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 90243. STUDIENGESELLSCHAFT FÜR DEUTSCHE WIRTSCHAFTSORDNUNG. Waggon industry. (BIOS Microfilm Reel FD 1023/46, Frames 202-228; BIOS/DOCS/COGAS) 1942. 26 f. Price: Microfilm-$1.50 - Enlargement print-$4.00
In German.

PB L 90243-S. STUDIENGESELLSCHAFT FÜR DEUTSCHE WIRTSCHAFTSORDNUNG. Waggon industry. (BIOS Microfilm Reel FD 1023/46, abstract) 1942. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 90060. TECHNISCHE HOCHSCHULE, BERLIN. Gas-generators for motor vehicles: Fuels, types, maintenance, etc. (BIOS Microfilm Reel FD 406/46, Frames 1-10; BIOS/DOCS/CIOS/CC). 1944. 10 f. Price: Microfilm-$1.00-Enlargement print-$2.00
In German.

PB L 90060-S. TECHNISCHE HOCHSCHULE, BERLIN. Gas-generators for motor vehicles: Fuels, types, maintenance, etc. (BIOS Microfilm Reel FD 406/46, abstract). 1944. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

PB L 89215. U. S. FIELD INFORMATION AGENCY, TECHNICAL. The main committee for railway vehicles. (Exploitation of ex-Reichsminister Albert Speer and members of the former Reichsministry for armaments and war production. Report 84, Part I). (Intelligence Rept EF/TC/9). Apr 1946. 6 p. Price: Microfilm-$1.00 - Photostat-$1.00
This report is based on an examination of Richard Fiebig, head of the main committee for railway vehicles in the Speer ministry.

PB L 90249. WAFFENAMT-PRUEFUNG. Research in structural items concerning tracked vehicles. (BIOS Microfilm Reel FD 1045/46, Frames 1-59; BIOS/DOCS/STT/G 10842-3-5-7-8-9) 1944. 59 f. Price: Microfilm-$2.25 - Enlargement print-$7.00
In German.

PB L 90249-S. WAFFENAMT-PRUEFUNG. Research in structural items concerning tracked vehicles. (BIOS Microfilm Reel FD 1045/46, abstract) 1944. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

MARINE TRANSPORTATION

PB L 85758. BLEICKEN, BERTHOLD. The Diesel-electric freighter "Wuppertal" (bound with The electric motor-ship "Wuppertal", by Gustav Lesch and H. Pruess). (Accurate Translation Service Rept 25). n.d. 74 p. Price: Microfilm $2.75 - Photostat $8.00

The freighter "Wuppertal" was built for the Hamburg-America Line by the "Deutsche Werft" in Hamburg. It exhibits a number of novel features. The choice of a Diesel-electric motor resulted from the excellent performance already shown by other ships with this equipment. Roller-bearings were used as stern-tube bearings. Some fuel-oil tanks are equipped to serve simultaneously as alternate sweet-oil containers. The construction of these tanks is based on the practical experiences of the steamship company. The basic ideas underlying these innovations are discussed in this report. A number of photographs, drawings and diagrams are included.

PB L 85759. DEUTSCHE WERKE KIEL, A. G. Preliminary description and operational manual for the steering system aboard cruiser Admiral Hipper, built by Deutsche Werke Kiel, A. G. (CONLAN Rept 36) n. d. 61 p. Price: Microfilm-$2.50 - Photostat-$7.00

The cruiser "Admiral Hipper," built by the "Deutsche Werke A. G., Kiel, Germany," has only one rudder and one rudder mechanism. It is operated exclusively by electric drive by two power units of equal size, which are independent from each other structurally and electrically. These units actuate the rudder either singly (at low speeds) or combined (at high speeds). In the event of a break-down they can be replaced by manual drive. The rudder mechanism is built into 3 compartments, separated by water tight partitions. This manual describes the mechanism, its operation and maintenance. Eight drawings are included. This is a translation from the German.

PB L 87356. EDSTRAND, HANS. The effect of the air content of water on the cavitation point and upon the characteristics of ships' propellers. 1946. 46 p. Price: Microfilm-$2.00 - Photostat-$5.00

The object of these experiments was to investigate the effect of the air content of the water on the cavitation point and on the characteristics of ships' propellers. The experiments were carried out in the cavitation tank for ships' propellers at Karlstads Mekaniska Werkstad, Kristinehamn, Sweden, in close collaboration with the Swedish State Shipbuilding Experimental Tank, in Göteborg. It was intended also to attempt to establish criteria for the testing of model propellers in the cavitation tank with reference to the dissolved air in the water. A bibliography and 25 figures are included. Text in English. This is a report of the Statens Skeppsprovningsanstalt (Swedish State Shipbuilding Experimental Tank).

PB L 85892. EGGERT, E. F. The effect of wind on ship trials. (David W. Taylor Model Basin Rept 264). Aug 1930. 13 p. Price: Microfilm -$1.25 - Photostat -$2.00

Experience has shown that in many cases trials of sister ships do not give good agreement. Trials of the same ship, at different times, often fail to show agreement. There must be a factor hitherto neglected which must be taken in account, - this factor is the wind. This factor of wind resistance is discussed in detail in this report with notes on the determination of power absorbed by wind resistance during the speed trials of ships. Table and diagrams are included.

PB L 85820. EGGERT, E. F. Resistance of various rudders on a model of the U. S. S. Patoka. (David W. Taylor Model Basin Rept 268) Oct 1930. 3 p. Price: Microfilm-$1.00 - Photostat-$1.00

This report describes a second series of tests made with rudders of various types on a model of the Patoka class. This second series included a model of a contra rudder developed by Theo. Goldschmidt Corporation.

PB L 88951. GERMANIAWERFT, A.G., KIEL GAARDEN. Assembly of the V 25-6 oil pressure engine with sleeve valve for submarines type VII C. Jul 1939. 3 p. Price: Microfilm -$1.00 - Photostat -$1.00

Drawing.

PB L 85846. HORN, F. High seas test trip oscillation measurements. (David W. Taylor Model Basin Translation 25) Jun 1936. 69 p. Price: Microfilm-$2.50 - Photostat-$7.00

This is a translation of a paper presented at the 36th general meeting of the "Schiffbautechnische Gesellschaft," Berlin, Nov. 1935. This paper contains six chapters covering discussions of the following subjects: 1) purpose and aim of the oscillation, acceleration, and wave measurements; 2) theoretical principles for the measurement of oscillations and accelerations; 3) description of the measuring instruments and their arrangement; 4) synopsis of essential measurements made; 5) various evaluations and their results; and 6) concluding remarks. Appendix contains a brief summary of the theory of vibration and acceleration measuring instruments, and a bibliography. 57 figures are included.

PB L 88949. LÜRSSEN, R. YACHT U. BOOTSWERFT, BREMEN, GERMANY. Profile lines of a keel. n.d. 6 p. Price: Microfilm -$1.00 - Photostat -$1.00

Two drawings of a keel section for an S-38 type vessel.

PB L 80668. MÜLLER. The Voith-Schneider propeller. Mar 1944. 67 p. Price: Microfilm -$2.00 - Photostat -$5.00

This report describes the development of a ship propeller operating on the principle of the wing theory. Diagrams and drawings included. In German. Data tables and legend on some drawings in French.

PB L 85819. PITRE, A. S. Propulsion problems of a destroyer. (David W. Taylor Model Basin Rept 390) Oct 1934. 198 p. Price: Microfilm-$5.75 - Photostat-$20.00

The broad objective of these proposed model and full-scale tests were: (a) to determine the comparative effects on propulsion and maneuverability of bossings in lieu of struts; (b) to study cavitation and its effect on thrust, torque, and revolutions; (c) to study the effect of changes in propeller characteristics; (d) to determine the general accuracy of full-scale test data for comparing and checking Model Basin predictions; and (e) to determine the changes necessary in the character of standardization trial to permit development of trial data for future designs. The various tests are described and results given. Tables, charts, graphs, drawings, and illustrations are included as well as a bibliography.

PB L 85891. PITRE, A. S. and THEWS, J. G. U. S. S. Farragut: Comparative rudder tests, model and full scale. (David W. Taylor Model Basin Rept 397) Mar 1935. 114 p. Price: Microfilm-$3.75 - Photostat-$12.00

The selection of a suitable rudder for destroyers Nos. 348 to 358 (to which class the U. S. S. Farragut belonged) required a great number of model tests. The Model Basin undertook full-scale turning trials on the U. S. S. Farragut; the vessel equipped, in turn, with rudder A and then rudder C - those rudders selected from model tests. In addition to the fundamental objective of correlating model and full-scale turning tests, the broad objectives of these tests were (a) comparison of tactical characteristics of rudders A and

C; (b) comparison of angle of heel produced in turning with rudders A and C; (c) comparison of effects of rudders A and C on propulsive performance; (d) comparison of maneuverability characteristics of rudders A and C, the vessel starting from rest; and (e) comparison of maneuverability characteristics of rudders A and C, the vessel under way. The procedure of the tests is described and results given. Tables and 130 figures are included.

PB L 85867. PITRE, A. S. U. S. S. Worden: Propulsion and turning performance, model and full-scale. (David W. Taylor Model Basin Rept 403) Aug 1935. 52 p. Price: Microfilm-$2.25 - Photostat-$6.00
From studies made on the U. S. S. Hamilton in model and full-scale regarding bossings and struts, the Model Basin recommended that for the destroyers, 348-358 class, then under construction, bossings be installed in lieu of struts. As a result, the U. S. S. Worden building at the Puget Sound Navy Yard, was selected for this substitution. After completion of the Worden, arrangements were completed for conducting standardization and turning trials on the Rockland Maine trial course to determine the degree of fulfillment of the Model Basin predictions in the use of bossings in lieu of struts as regards propulsive performance, turning, and maneuverability performance. The basic procedure utilized in the conduct of the various trials was similar to that employed in the case of the U. S. S. Hamilton, see PB 95819, the U. S. S. Farragut, see PB 85891, and as given in Appendix I. The trials are described and results given. Illustrations, graphs, charts and tables are included.

PB L 81894. SAUNDERS, HAROLD E. Multiple skeg stern for ships. n.d. 219 p. Price: Microfilm-$6.25 Photostat-$22.00
This paper confines itself to the story of multiple-skeg sterns for ships. It will definitely not embody any argument for or against multiple-skeg sterns as compared to what are termed normal-form sterns. It will, however, endeavor to set forth all the features which should be considered and weighed in any such argument for the benefit of any reader who may desire to arrive at a particular decision for himself. A number of photographs, drawings, and charts are included.

PB L 85869. SCHADLOFSKY, K. The calculation and measurement of elastic natural frequencies of ship hulls. (David W. Taylor Model Basin Rept 382. Translation 7) Jun 1934. 72 p. Price: Microfilm-$2.75 - Photostat-$8.00
Knowledge of the natural frequency of ship hulls in advance of construction is at the present time of increasing practical importance. Particularly in motor ships, cases have increased in which, as a result of resonance between periodic forces and the natural frequency of the hull, annoying and dangerous vibrations have been observed. In most cases it is a question of vertical vibration, especially of the fundamental type, which in themselves also causes the most violent shocks. Because of the predominating importance of vertical vibration this type will be dealt with exclusively in this paper. This article appeared in "Schiffbautechnische Gesellschaft," vol. 33, 1932.

PB L 85881. SCHLICHTING, OTTO. Ship resistance in water of limited depth. Resistance of seagoing vessels in shallow water. (David W. Taylor Model Basin Translation 56) Jan 1940. 26 p. Price: Microfilm-$1.50 - Photostat-$3.00
This is a translation of an article which appeared in the "Jahrbuch für Schiffbau Technische Gesellschaft," vol. 35, 1934. Discussions in this paper cover the following subjects: (1) Resistance of seagoing vessels in shallow water; (2) test data obtained from different scale models; (3) comparison of results of tests of ship velocities producing equal wave lengths; (4) method of analysing the data; (5) regularity of the empirical velocity increase due to the displacement flow, and presentation of the total results of calculation; (6) results of flow measurements; (7) effect of shallow water of velocities greater than wave velocities; (8) checking results by comparison with trial run data, and conclusions. Sixteen figures and two depth charts of the North and Baltic Seas are included.

PB L 86194. SHIMANSKI, U. A. Effect of underwater explosions on the general stability of ship hulls. (CONLAN Rept 85a). n.d. 51 p. Price: Microfilm-$2.25 - Photostat -$6.00
This translation of a Russian report from the National Commissariat of the Shipbuilding Industry, Centra Scientific Research Institute, discusses the following: 1) The general character of dynamic dislocation of the hull; 2) application of the dynamic dislocation method; 3) effect of dynamic loads; 4) dynamic deflections and accelerations, brought about by underwater explosions; 5) torsional moments; 6) general principles and standards for calculating the longitudinal stability of the hull under action of underwater explosions and sample calculations; etc. Data tables and graphs are included.

PB L 85862. THEWS, J. G. and LANDWEBER, L. A comparison of three methods of rolling ship models. (David W. Taylor Model Basin Rept 433) Jun 1937. 22 p. Price: Microfilm-$1.50 - Photostat-$3.00
This investigation concerns itself with the problem of predicting the rolling of ships for given standard conditions. Various methods are available for testing a model in rolling and each method has its virtues. The purpose here is to reduce three methods to a common base of comparison and to note how consistent they are experimentally. The methods of testing in rolling are: (a) by means of uniform synchronous waves; (b) from the model's declining angle curve; and (c) by means of a mechanical rolling gear mounted in the model. The tests are described in detail and results shown in tables and graphs.

PB L 85861. THEWS, J. G. and LANDWEBER, L. The effect of the turn of the bilge on roll damping. (David W. Taylor Model Basin Rept 442) Jan 1938. 8 p. Price: Microfilm-$1.00 - Photostat-$1.00
The sharpness of the turn of the bilges, and whether or not they are equipped with keels, greatly determines the roll damping power of the midship section of a given ship. The purpose of this investigation was to determine the effect of the variation of the radius of the turn of the bilge, when without and with bilge keel, on roll damping. The tests are described and results given. Nine figures are included.

PB L 85866. THEWS, J. G. and LANDWEBER, L. The influence of shallow water on the resistance of a cruiser model. (David W. Taylor Model Basin Rept 408) Oct 1935. 28 p. Price: Microfilm-$1.50 - Photostat-$3.00
The primary purpose of the work described in this report was to map out the deviation of shallow water resistance for a cruiser model. Various observations of the physical phenomena associated with the motion of the model in restricted water depths were noted visually and photographically during these tests. These observations are presented together with suggestive interpretations showing the relation between the resistance of the model and the nature of the wave system around it. These studies are to be continued in connection with a commercial type of vessel, namely the S. S. Clairton, see PB L 85865. Curves, charts, sketches, and photographs are included.

PB L 85864. THEWS, J. G. and LANDWEBER, L. On the resistance of a heavy flexible cable for towing a surface

float behind a ship. (David W. Taylor Model Basin Rept 418) Mar 1936. 18 p. Price: Microfilm-$1.25 - Photostat-$2.00
In an attempt to predict the behavior of a float towed behind a ship by a long flexible cable, two distinct problems arose, for whose solution a knowledge of the forces in the cable was required namely: (1) what must be the strength of the cable? to answer this, it was necessary to know the tension in the cable at the ship; (2) how does the cable affect the behavior of the float? to answer this second question it was necessary to know the horizontal and vertical components of the tension, or, what is the same thing, to know the tension at the float and the angle that the cable makes with the horizontal at that point. The problem is calculated and results given tabulated and graphically.

PB L 85899. THEWS, J. G. and LANDWEBER, L. The power cost of roll stabilization on the Conte di Savoia. (David W. Taylor Model Basin Rept 430) Jan 1937. 14 p. Price: Microfilm-$1.25 - Photostat-$2.00
This report is an approximate power cost evaluation of gyro stabilization in terms of bilge keel size. A few experiments were also conducted with different sized bilge keels to determine their relative effectiveness in the damping of rolling motion. The form which was used for these tests a six-foot model of the U.S.S. Lexington, was one which was qualitatively similar to that of the Conte di Savoia. Curves and tables are included.

PB L 85872. THEWS, J. G. and LANDWEBER, L. The tension in a loop of cable towed through a fluid. (David W. Taylor Model Basin Rept 422) Jun 1936. 6 p. Price: Microfilm-$1.00 - Photostat-$1.00
This work was undertaken in an attempt to find what must be the minimum strength in a loop of wire cable when towed at a given speed by two tow boats a given distance apart. Mathematical expressions are derived from which the maximum tension may be computed for a prescribed loop of cable. The method developed is used to determine the tension in a particular case. A curve showing cable tension at ship, two speed angle curves, and two figures are included.

PB L 85865. THEWS, J. G. and LANDWEBER, L. A thirty inch model of the S. S. Clairton in shallow water. (David W. Taylor Model Basin Rept 414) Jan 1936. 17 p. Price: Microfilm-$1.25 - Photostat-$2.00
This report is supplementary to David W. Taylor M. B. Report 408 (PB 85866). The results and analysis given herein for the thirty-inch Clairton model parallels those for the four-foot cruiser model as given in the above-mentioned report. The results for the cruiser may be taken as representative for those of slender, high speed vessels. Those for the Clairton on the other hand give corresponding information for the slow, full commercial type of ship. The apparatus used and method of the test are described. One resistance curve and a number of photographs are included.

PB L 84366. U. S. BUREAU OF SHIPS. Internal combustion engine instruction and parts books: Operating and maintenance instruction manual for model 16-184A Diesel engine. (Bur Ships N. D. Reel D 6771 (16 mm), Frames not numbered) Apr 1945. 129 f. Price: Microfilm-$4.00 - Enlargement print-$14.00
This microfilm reel is of the instruction manual which was intended for use as a general training guide and information on the above Diesel engine, manufactured by the Electromotive Division, General Motors Corporation, LaGrange, Ill. This Diesel engine has a vertical crankshaft with 16 horizontal cylinders in four radial banks and is intended for marine use for propulsion of 110-foot submarine chasers. The engine drives a controllable pitch propeller through a spiral bevel reduction gear. Bore 6", stroke 6½", 2-stroke cycle with scavenging.

PB L 82317. U. S. BUREAU OF SHIPS. Internal combustion engine parts and instruction books: Cooper-Bessemer 6-cylinder Diesel engines, Models FS-6, FSN and GN-6. (NAVSHIPS Microfilm Reel D 6098, Frames not numbered) Mar 1946. 891 f. Price: Microfilm-$7.00 - Enlargement print-$91.00
This microfilm reel consists of five parts as listed below.

Title of Book	Model	Contract Nos.	Vessels and /or Engine numbers
1. Instruction Book.	FS 250 KW - Emergency Generator	NOd 1627	AP 108, AP 109, AP 160, AP 161; 2038-39, Incl.
2. Operation and Maintenance Manual	FS Diesel Generator Unit	NObs 1276	Salvage Vessels ARS 38 to 49; Engine Numbers 3180-3203
3. Instruction Book	FS-6 Emergency Generating Set	NObs 13497	Engine Numbers 3261-3268 Incl.
4. Instruction Book	FSN 250 KW Emergency Generator	NObs-1003 NObs-1101 NXss-17478	Aircraft carriers (CV types)
5. Supplementary Instructions. (Supplements the regular instruction book and is intended to cover modifications necessary to operate on Bunker C fuel oil)	GN-6 Generator Sets		Engine Serial #'s . 1310 to 1316, 1365 to 1371 and 1416 to 1421.

The manuals are divided into sections and, for convenience of presentation the main assemblies and systems of the engine are treated in separate sections. As far as possible each section is complete in itself without reference to other section. The generator and electrical control equipment are covered in separate manuals prepared by the manufacturers of the equipment. Illustrated with drawings and photographs.

PB L 85857. U. S. DAVID W. TAYLOR MODEL BASIN, CARDEROCK, MD. Effects of modifications to battleship models on resistance and propulsion. (Rept 429) Dec 1936. 20 p. Price: Microfilm-$1.25 - Photostat-$2.00
Experiments were conducted on Model No. 3367, representing battleships 43 to 48, in which eight alterations were made to the bow forward of station #3 on a 40 station basis, and on Model No. 3383 representing tentative battleship of 37,000 tons, 660 feet long, in which three different bows and three different sterns were tested for resistance and propulsion. Results of tests are shown in 14 sheets and tables.

PB L 85824. U. S. DAVID W. TAYLOR MODEL BASIN, CARDEROCK, MD. Model experiments to determine the relative effect of propeller struts and bossings on the steering of a twin screw ship. (Rept 331) Jul 1932. 11 p. Price: Microfilm-$1.25 - Photostat-$2.00
The tests described in this report were undertaken at the Model Basin to establish the influence of propeller bossings as compared to propeller struts on the turning of a twin screw ship, and also to investigate the influence of cutting away the stern deadwood. One photograph and eight figures are included.

PB L 85853. U. S. DAVID W. TAYLOR MODEL BASIN, CARDEROCK, MD. Residuary or form resistance of ships. Preliminary report. (Rept 392) Nov 1934. 7 p. Price: Microfilm-$1.00 - Photostat-$1.00
The form resistance of a ship is due to the inequalities of the fluid pressure distribution forward and aft while the ship is under way. If the point pressures at all parts of the bow and stern of a ship, while under way at any given speed, could be determined, the integration of these unit pressures multiplied by the projections on a transverse plane of all the elements of wetted surface would give the form resistance at that speed. This has been done in the case of model 2861, which was made up of two equal ends each 7½ feet long, and a parallel middle body 5 feet long, making a total length of 20 feet. Body plans showing contours of change of pressure and a curve showing speed in knots and resistance in pounds are included.

PB L 86201. WAHLCHNER, O. Additional propeller designs for Z 36a. (Accurate Translation Service Rept 54) Jan 1943. 31 p. Price: Microfilm-$1.75 - Photostat-$4.00
This is a translation of a report from the Aerodynamic Testing Laboratory at Göttingen, Germany. In this report the design process is discussed with approximate consideration of the streamline curvature. The results of the Hamburg Basin measurements on models for two additional propeller designs and six graphs are included.

MISCELLANEOUS

*PB L 81325. BAXTER, A. D. and others. Interrogation of Professor Carl Wagner of Darmstadt, May 25, 1945. Preliminary notes. (CIOS ARCO Rept 36a). May 1945. 7 p. Price: Microfilm-$1.00 - Photostat-$1.00
The ground covered is as follows: (a) thermodynamics of rockets, (b) maximum speed in a wind tunnel, (c) catalytic decomposition of hydrogen peroxide, (d) precision coulomb meter, (e) conduction through liquid films, and (f) conduction of pyrites and lead sulfide.

*PB L 81802. BOGROW, A. and others. FIAT - Berlin Patent Office activities. (FIAT Tech Bulletin T-50). May 1947. 18 p. Price: Mimeo-$0.50
This document is an outline of FIAT activities in the Berlin Patent Office. It lists the German classifications by number and subject, and outlines roughly which FIAT reel numbers fall into each class. It is published in order to facilitate the association of reel numbers with subject interests. In all, 1,018 reels are listed, covering 146,271 applications microfilmed (both screened and unscreened).

*PB L 89744. BUCH, JOHN W. Mining thin, steeply pitching seams, and the operation of Diesel locomotives underground, Ehe Bruchstrasse, Gebsenkerken A. G., Bochum-Ruhr. (FIAT Final Rept 99). Jul 1945. 5 p. Price: Microfilm-$1.00 - Photostat-$1.00
Conclusions: from observation and discussions, handmining with backfilling is considered to be better than any mechanical method. However, it may be that the Germans have not as yet tried the proper method. It was learned that in years past they did retain successive layers or vertical tiers, of backfill, and without difficulty. Diesel locomotives require a high type of maintenance, and do produce fumes (either combustion products or unburned vaporized fuel) which is very distressing.

PB L 74372. DEUTSCHES MUSEUM, MUNICH, GERMANY. DIN Tables and The Dyckerhoff Cement Journal. (FIAT Microfilm Reel G 208, Frames 6892-7434) 1935-1944. 543 f. Price: Microfilm-$6.00 - Enlargement print-$54.50
This reel contains the DIN (German Industrial Standards) index for 1942 together with the 1944 supplement. The book has a decimal classification section and a numerical index with page reference numbers. These standards were put out by the Deutscher Normenausschuss. The Dyckerhoff Cement Journal is a monthly publication that was published by the Dyckerhoff Portland Cement Works for their employees and contains issues from January 1935 to August 1939. In German.

PB L 85520. FITTS, PAUL M. The use of the angular transformation in the statistical treatment of error frequencies. (AAF AMC Eng Div Memo Rept TSEAA-694-1J). Sep 1947. 13 p. Price: Microfilm -$1.25 - Photostat -$2.00
This report consists of a memorandum prepared by Princeton University on the use of the angular transformation. The report contains a discussion of the application of the method and includes examples and a bibliography. It is also pointed out that a follow up check exists for detecting data to which the transformation is really not applicable. The authors conclude that the angular transformation is a useful technique which merits more frequent use than has been the case in the past. Error score charts are included.

*PB L 81708. HUGHES, G. L. Interrogation of Dr. J. H. Dannies on 29th May, 1947, on refrigerators. (BIOS Interrogation Rept 548). Jul 1947. 3 p. Price: Microfilm-$1.00 - Photostat-$1.00
Three interrogations of Dr. J. H. Dannies are reported. The main object was to record his past experience in absorption type refrigeration and to judge his ability and usefulness.

PB L 89100. LAIBACH, FRIEDRICH. Crossbreedings between coleus-species of a long and short day character. (FIAT Final Rept 1135). Jan 1947. 17 p. Price: Microfilm-$1.25 - Photostat-$2.00
The hereditary succession of the dependence on the length of day is known for the flower formation of Nicotiana Tabacum L. Here the long-day character or the day-neutral character respectively dominate over the short-day character. Research was continued to find out whether these results observed in tobacco, the only test object used thus far, have general validity. Two species of Coleus: C. Frederici, a short-day plant, and C. Blumei Benth., a long-day plant, proved to be favorable objects for scientific experiments. In crossbreeding the short-day character of C. Frederici was dominant over the long-day character of C. Blumei (dominating ratio was reversed compared with tobacco). The F_1 of the crossing C. Blumei X C. Frederici was sterile. Experiments in polyploidization with colchicine resulted in an amphidiploid hybrid of high grade fertility. The latter also differed from the diploid F_1 hybrid in the size of pollen grains, fissure openings, and glandular hairs on the corolla. The vegative development of the amphidiploid compared with the diploid is hampered, whereas in photoperiodical behavior both are alike. The short-day character is also maintained in triploids (from a crossing amphidiploid ♀ X C. Frederici ♂ (short-day parent) and C. Blumei ♂ (long-day parent). The triploids are self-sterile, fertile with pollen of C. Frederici and C. Blumei and pollen of the amphidiploid. In German, with abstract and biographical note in English.

Miscellaneous (contd)

PB L 74582, PB L 74591, PB L 74594, PB L 74601, PB L 74602, PB L 74606, PB L 74615 - PB L 74617, and PB L 84439. SCHLOMANN, ALFRED (ed.). Illustriertes Technisches Wörterbucher. (FIAT Microfilm Reels K-62 to K-71, inclusive, Frames 870-7514)

The Reels K-62 to K-71 are of the 17 illustrated technical dictionaries, published by R. Oldenbourg Company. These dictionaries are in German, English, French, Russian, Italian and Spanish. In the first part of each volume the material is subdivided according to technical groups. Opposite the German catchword are the equivalents in each of the other languages. Many of the terms are explained by sketches, diagrams or mathematical formulas. In the second portion, an alphabetical index of words is given in each language with section references to the first portion. The contents of the volumes (freely translated titles) are as follows: Vol. I, Engine parts and tools; Vol. II, Electrical engineering and electrochemistry; Vol. III, Steam boilers, steam engines, steam turbines; Vol. IV, Combustion engines; Vol. V, Railway construction and operation; Vol. VI, Railway machinery; Vol. VII, Lifting and transporting devices; Vol. VIII, Reinforced concrete construction; Vol. IX, Machine tools (metal and woodworking); Vol. X, Motor vehicles; Vol. XI, Iron metallurgy; Vol. XII, Water, air and cold technology; Vol. XIII, Structural work; Vol. XIV, Fibrous raw materials; Vol. XV, Spinning and spinning machines; Vol. XVI, Weaving and fabrics; Vol. XVII, Aeronautics. Dates and prices are as follows:

PB No.	Reel No.	No. of Frames	Vols. of Dictionary	Publication Date	Price: Micro.	Price: H. P.
L 74594	K-62	869	I and II	1906 & 1928 (resp.)	$6.00	$87.00
L 74606	K-63	665	III	1908	6.00	66.50
L 74582	K-64	760	IV and V	1908 & 1909 (resp.)	6.00	76.00
L 74591	K-65	756	VI and VII	1909 & 1910 (resp.)	6.00	76.00
L 84439	K-66	588	VIII and IX	1910	7.00	60.00
L 74602	K-67	900	X and XI	1910 & 1911 (resp.)	6.00	90.00
L 74617	K-68	1005	XII	1915	6.00	100.50
L 74615	K-69	781	XIII and XIV	1922 & 1923 (resp.)	6.00	78.50
L 74601	K-70	478	XV	1925	5.75	48.00
L 74616	K-71	706	XVI and XVII	1925 & 1932 (resp.)	6.00	71.00

*PB L 91586. TOERING, ALBERT J. and MEITER, EDWARD G. Chemische Fabrik, "Dr. Hugo Stolzenberg", industrial safety equipment, Hamburg. (FIAT Evaluation Rept 295). Aug 1945. 1 p. Price: Microfilm -$1.00 - Photostat - $1.00

He represents himself as an inventor and although he has some unique ideas, it is probable that they are not of great importance. His dust and chemical respirators were approved by the Government, playing only a minor part. He used a patented full-vision facepiece which may be of interest to respirator manufacturers and will be described in a final report.

PB L 81561. U. S. CHIEF OF NAVAL OPERATIONS. Central hydraulic laboratory. (Rept 148-46). Jul 1946. 6 p. Price: Microfilm-$1.00 - Photostat-$1.00

The "Laboratoire Central Hydraulique" located in Paris is stated to be the largest of its type in the world. At this laboratory are studied phenomena relating to movements of water in application to ports, dams, canals, bridges, etc. Models of projects are built here and the effect of tides, waves, currents, etc., are studied in miniature. At the present time studies are being carried out in relation to rebuilding the ports of Le Hâvre, Fécamp, Dieppe, Konakry, Dakar, the bridges along the Loire, etc. Artificial tides are created and their effects on miniature beaches and port basins are carefully studied. Photographs showing some of the work being done at the laboratory are included. Captions are in French.

PB L 90001. VDI. Increase in production. (BIOS Microfilm Reel FD 5/46, Frames not numbered; BIOS/DOCS/ADIK 159/54) 1943. 86 f. Price: Microfilm-$3.00 - Enlargement print-$10.00

In German.

PB L 90001-S. VDI. Increase in production. (BIOS Microfilm Reel FD 5/46, abstract) 1943. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00

In English.

PB L 88766. VOIGT, EHRHARD. The preservation of geological and soil profiles by means of the lacquer-film method. (Veröffentlichung der Reichsstelle für den Unterrichtsfilm zu dem Hochschulfilm C 236). n.d. 9 p. Price: Microfilm -$1.00 - Photostat -$1.00

Accompanying text for an educational film. In German.

PB L 89601. W.E.Z. ORGANISATION, LEIPZIG, GERMANY. "Who supplies what?" Buyers' guide. Eighth enlarged edition. 1942. 1500 p. Price: Microfilm-$7.00 - Photostat-$150.00

This guide is in three parts. Part I contains a subject index. Part II lists manufacturers, under 9 general groups as follows: (1) Foods; (2) housing; (3) clothing; (4) physical culture and sports; (5) games and amusements; (6) research and instruction; (7) drives and motion; (8) manufactured goods; and (9) retail trade. Each group is subdivided. Part III lists W.E.Z. customers' services. In German.

PB L 89601-S. LEIPZIGER MESSEAMT, LEIPZIG, GERMANY. "Who supplies what?" Buyers' guide. (Supplement to PB 89601) 1946. 450 p. Price: Microfilm-$7.00 - Photostat-$45.00

This guide contains a subject index and a list of manufacturers (exhibitors at the Leipzig Fair) under 9 general groups as indicated in PB L 89601, above. In German.

PB L 88751. WALKEN, PAUL. Swimming. (Veröffentlichung der Reichsstelle für den Unterrichtsfilm zu dem Hochschulfilm C 282). 1938. 11 p. Price: Microfilm -$1.25 - Photostat -$2.00

Accompanying text for an educational film. In German.

*PB L 91560. WHITE, J. U. and GUELLICH, GUSTAV. Technische Hochschule Breslau, spectroscope, Heindenheim. (FIAT Evaluation Rept 267). Aug 1945. 1 p. Price: Microfilm -$1.00 - Photostat -$1.00

Obtained details on synthetic quartz (a) by recrystallization, (b) by chemical synthesis; details on substitutes for quartz oscillators; details on production of detector crystals, (a) pyrite, (b) silicon on carbon; infra red transmitting glass for proximity fuses on torpedoes.

*PB L 91500. WIKLE, HUGH H. and STEINER, W. A. Deutsche Kohlenburaten u. Elament Fabrik, carbon brush cutter, Bonames (FIAT Evaluation Rept 67). Aug 1945. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00

Capacity of plant approximately 500,000 assorted brushes per month. Also manufactures primary cells (air-depolarized dry batteries) for telephone work. Methods of manufacture of no interest to American industry.

INSTRUMENTS (PROFESSIONAL, SCIENTIFIC AND CONTROLLING)

PB L 82316. REICHSPATENTAMT, BERLIN. German patent applications relating to instruments. (FIAT Microfilm Reel C-47, Frames 5723-6831) 1940-1945. 909 f. Price: Microfilm-$7.00 - Enlargement print-$92.00 This reel, prepared by FIAT investigators in Germany, contains 130 applications of class 42. Individual items are listed below and will be available as enlargement prints. The entire reel may be purchased as a microfilm for $7.00. Please include PB and frame numbers when ordering individual items. In German.

Frames	Title	Price
5723-5734 PB L 82316	SIEMENS & HALSKE, A.G., BERLIN. Method for regulating the pH of solutions. Ger. patent application L 141 541 IXb/42 l dated Aug 7, 1941. In German.	$3.00
5735-5742 PB L 82316	SIEMENS & HALSKE, A.G., BERLIN. Temperature regulator with thermal partial compensation. Ger. patent application dated Jun 6, 1940. In German.	2.00
5743-5751 PB L 82316	SIEMENS-SCHUCKERT WERKE A.G., BERLIN. Magnetostrictive oscillator for ultra-sonic transmitters. Ger. patent application S 141 083 dated May 17, 1940. In German.	2.00
5752-5762 PB L 82316	SIEMENS APPARATE UND MASCHINEN G.M.B.H., BERLIN. Sound generation in liquids on a purely acoustic basis. Ger. patent application S 141 070 dated May 20, 1940. In German.	3.00
5763-5770 PB L 82316	SIEMENS-SCHUCKERT WERKE A.G., BERLIN. Shaking device. Ger. patent application S 143 671 dated Jan 18, 1941. In German. Addition to patent application S 137 978 IXb/42n.	2.00
5771-5791 PB L 82316	EITNER, E.F., BERLIN. Temperature regulator for fluids. Ger. patent application S 144 032 dated Feb 14, 1941. Inventors: Sandvoss, H. and others. In German.	4.00
5792-5796 PB L 82316	SIEMENS & HALSKE A.G., BERLIN. Mechanical-pneumatic measuring gage. Ger. patent application S 144 005 dated Feb 12, 1941. In German.	2.00
5797-5804 PB L 82316	REITSTOETTER, J., BERLIN. Method for determining the temporary changes of state of colloidal solutions. Ger. patent application S 144 313 IXb/42 l dated Mar 4, 1941. In German.	2.00
5805-5809 PB L 82316	SOLOWJEW, ANDREAS V., BERLIN. Optic compensation for movement of the image by means of rotating glass bodies. Ger. patent application dated Sep 6, 1940. In German.	2.00
5810-5816 PB L 82316	SIEMENS & HALSKE A.G., BERLIN. Arrangement for photoelectric measuring and testing by circularly polarized light. Ger. patent application S 142 209 IXa/42h dated Nov 13, 1941. In German.	2.00
5817-5825 PB L 82316	SIEMENS & HALSKE A.G., BERLIN. Electrode attachment for pH measurements. Ger. patent application G 142 229 IXb/42 l dated Sep 8, 1942. In German.	2.00
5826-5832 PB L 82316	SIEMENS-SCHUCKERT WERKE A.G., BERLIN. Electric meter with magnetic attenuation. Ger. patent application S 142 400 IXb/42e dated Sep 25, 1940. In German.	2.00
5833-5848 PB L 82316	SIEMENS & HALSKE A.G., BERLIN. Device for automatically regulating the proportion of volume of two flows. Ger. patent application dated Oct 2, 1940. In German.	3.00
5849-5857 PB L 82316	SIEMENS & HALSKE A.G., BERLIN. Device for photographic recording the movements of a point on an object. Ger. patent application S 140 750/42d dated Apr 16, 1940. In German.	2.00
5858-5864 PB L 82316	SIEMENS & HALSKE A.G., BERLIN. Large scale recorder, preferably for the control of operations in switch control stations, boiler-rooms and the like. Ger. patent application dated Mar 13, 1940. In German.	2.00
5865-5871 PB L 82316	SIEMENS & HALSKE A.G., BERLIN. Tracer lever for photoelectric tracer control. Ger. patent application S 140 397 dated Mar 7, 1940. In German.	2.00
5872-5885 PB L 82316	SIEMENS & HALSKE A.G., BERLIN. Method for optical temperature measurement, especially color temperature measurement. Ger. patent application S 139 833 IXb/42i dated Jan 17, 1940. In German.	3.00
5886-5897 PB L 82316	SIEMENS & HALSKE A.G., BERLIN. Measured value recorder, especially for deformation values of telegraphic signals. Ger. patent application S 139 774 dated Jan 9, 1940. In German.	3.00
5898-5903 PB L 82316	SIEMENS REINIGER WERKE A.G., BERLIN. Regulator for the volume of liquids. Ger. patent application S 142 722 IXb/42e dated Oct 25, 1940. In German.	2.00
5904-5911 PB L 82316	ROMEO, ALFA, MILANO. Device for remote indication of liquid consumption. Ger. patent application S 142 733 dated Oct 23, 1940. In German.	2.00
5912-5918 PB L 82316	SIEMENS-SCHUCKERT WERKE A.G., BERLIN. Apparatus for the supervision or indication of technological physical operating data. Ger. patent application S 141 736 dated Jul 20, 1940. In German.	2.00
5919-5924 PB L 82316	SIEMENS-SCHUCKERT WERKE A.G., BERLIN. Device for the supervision of the liquid level in containers. Ger. patent application S 141 745 dated Jul 22, 1940. In German.	2.00

5925-5934 PB L 82316 SIEMENS-SCHUCKERT WERKE A.G., BERLIN. Machine for the generation of mechanical supersonic oscillations. Ger. patent application S 142 550 IXb/42s dated Oct 7, 1940. In German. 2.00

5935-5952 PB L 82316 SIEMENS & HALSKE A.G., BERLIN. Apparatus for determining the size of objects. Ger. patent application S 142 638 dated Oct 17, 1940. In German. 3.00

5953-5964 PB L 82316 OFFICINE DI VILLAR PEROSA, TURIN, ITALY. Counter, consisting of counting wheels, for cash registers, calculating machines and the like. Ger. patent application dated Jan 18, 1941. In German. 3.00

5965-5973 PB L 82316 SIEMENS-SCHUCKERT WERKE A.G., BERLIN. Device for electron-optical, quantitative and qualitative determination of solid or liquid constituents in the air or other gases. Ger. patent application dated Jan 17, 1941. In German. 2.00

5974-5990 PB L 82316 SIEMENS-SCHUCKERT WERKE A.G., BERLIN. Device for treating any goods by vibrating or shaking movements of a shaking machine. Ger. patent application S 143 699 dated Jan 10, 1941. In German. 3.00

5991-5995 PB L 82316 SIEMENS & HALSKE A.G., BERLIN. Method for micro-carbon determination in solid materials. Ger. patent application S 143 710 IXb/42 1 dated Jan 22, 1941. In German. 2.00

5996-6002 PB L 82316 SIEMENS & HALSKE A.G., BERLIN. Transforming a measured value, represented by a torsional moment, into an electric current by means of a compensating device. Ger. patent application S 143 734 IXb/42d dated Jan 11, 1941. In German. 2.00

6003-6007 PB L 82316 SIEMENS & HALSKE A.G., BERLIN. Protecting the eyes from radiation by reflecting layers. Ger. patent application S 144 246 IXa/42h dated Feb 28, 1941. In German. 2.00

6008-6013 PB L 82316 SIEMENS-SCHUCKERT WERKE A.G., BERLIN. Device for registering work according to power graduations. Ger. patent application of addition S 144 287 dated Mar 3, 1941. In German. 2.00

6014-6020 PB L 82316 SIEMENS-SCHUCKERT WERKE A.G., BERLIN. A generator for sound concentration in which a current of gas oscillates and which is arranged in a concave mirror. Ger. patent application S 141 909 IXb/42s dated Jan 11, 1943. In German. 2.00

6021-6025 PB L 82316 KOCH, W., DRESDEN. Device for stereoscopic viewing of motion pictures. Ger. patent application S 143 079 IXa/42h dated Nov 27, 1940. Inventor: Singer. In German. 2.00

6026-6029 PB L 82316 SIEMENS & HALSKE A.G., BERLIN. Rapid photoelectric device for testing the number of teeth on gears. Ger. patent application S 143 086 dated Nov 27, 1940. In German. 2.00

6030-6034 PB L 82316 SIEMENS & HALSKE A.G., BERLIN. Arrangement for transforming a measured value, represented by a torsional moment, into an electric current by means of a compensating device. Ger. patent application S 142 845 IXb/42d dated Nov 6, 1940. In German. 2.00

6035-6040 PB L 82316 SIEMENS & HALSKE A.G., BERLIN. Rotary piston flow meter, especially for a large volume of flow. Ger. patent application S 142 870 dated Nov 8, 1940. In German. 2.00

6041-6043 PB L 82316 SILICA GEL GESELLSCHAFT, DR. VON LUEDE & CO., BERLIN-CHARLOTTENBURG. Method for keeping small containers dry. Ger. patent application dated Mar 13, 1941. In German. 2.00

6044-6047 PB L 82316 SIEMENS & HALSKE A.G., BERLIN. Photoelectric measuring and testing device. Ger. patent application S 143 808 IXa/42h dated Jan 11, 1943. In German. 2.00

6048-6058 PB L 82316 ZUMSTEIN, F., BERLIN. Mechanism for the control of dry gas meters. Ger. patent application S 141 785 dated Jul 26, 1940. Inventor: Spagno. In German. 3.00

6059-6065 PB L 82316 ZUMSTEIN, F., BERLIN. Device for the gas-tight transmission of the movement of machine parts through a wall, especially for gas meters. Ger. patent application S 141 787 dated Jul 26, 1940. Inventor: Spagno. In German. 2.00

6066-6070 PB L 82316 ZUMSTEIN, F., BERLIN. Disc valve, especially suited for gas meters. Ger. patent application S 141 813 dated Jul 26, 1940. Inventor: Spagno. In German. 2.00

6071-6076 PB L 82316 ZUMSTEIN, F., BERLIN. Device for guiding the gas supply pipe in dry gas meters. Ger. patent application S 141 701 dated Jul 19, 1940. Inventor: Spagno. In German. 2.00

6077-6083 PB L 82316 ZUMSTEIN, F., BERLIN. Housing construction for dry gas meters and internal arrangement. Ger. patent application S 141 702 dated Jul 19, 1940. Inventor: Spagno. In German. 2.00

6084-6089 PB L 82316 SIEMENS & HALSKE A.G., BERLIN. Device for improving the reading visibility of measuring and indicating instruments with aluminous indicator or light spot. Ger. patent application S 144 148 IXb/42d dated Feb 22, 1941. In German. 2.00

6090-6100A PB L 82316 SIEMENS & HALSKE A.G., BERLIN. Mechanical-pneumatic measuring gage. Ger. patent application S 143 991 IXb/42b dated Feb 11, 1941. In German. 3.00

6101-6104 PB L 82316 SIEMENS-SCHUCKERT WERKE A.G., BERLIN. Magnetostrictive os-

cillator. Ger. patent application S 142 325 IXb/42s dated Sep 17, 1940. In German. 2.00

6105-6110 PB L 82316 SIEMENS REINIGER WERKE, A.G., BERLIN. Supersonic generator, especially for medical purposes. Ger. patent application S 142 076 IXb/42s dated Jun 9, 1942. In German. 2.00

6111-6117 PB L 82316 SIEMENS & HALSKE A.G., BERLIN. Photoelectric measuring and control device. Ger. patent application S 142 396 dated Sep 20, 1940. In German. 2.00

6118-6126 PB L 82316 SIERENBERG, ALFRED, MASCHINEN FABRIK, ILMENAU/THURINGIA. Adjustable contact thermometer. Ger. patent application S 142 670 IXb/42i dated Oct 21, 1940. In German. 2.00

6127-6129 PB L 82316 SIEMENS & HALSKE A.G., BERLIN. Device for applying very fine drops of liquid on slides. Ger. patent application dated Jan 9, 1941. In German. 2.00

6130-6133 PB L 82316 FRARBOURG, OTTO. Gage handle for measuring cylinder. Ger. patent application S 142 779 IXb/42b dated Nov 1, 1940. Inventor: Sebeck. In German. 2.00

6134-6139 PB L 82316 SIEMENS & HALSKE, A.G., BERLIN. Device for measuring and testing surfaces. Ger. patent application S 141 177 dated May 30, 1940. In German. 2.00

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This reel was prepared by FIAT investigators in Germany contains 155 applications of class 49. Individual items are listed below and will be available as enlargement prints. The entire reel may be purchased as a microfilm for $7.00. Please include PB and frame numbers when ordering individual items. In German.

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METALS AND METAL PRODUCTS

PB L 90003. DEUTSCHE EDELSTAHLWERKE A. G., KREFELD, GERMANY. Patents on steel alloys, specially magneto steel (BIOS Microfilm Reel FD 17/46. Frames not numbered; BIOS/DOCS/1375) 1937-1944. 99 f. Price: Microfilm-$3.25 - Enlargement print-$11.00
In German some English

PB L 90003-S. DEUTSCHE EDELSTAHLWERKE A. G., KREFELD, GERMANY Patents on steel alloys, specially magneto steel. (BIOS Microfilm Reel FD 17/46, abstract) 1937-1944. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
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This reel, prepared by FIAT investigators in Germany, contains 168 applications. Individual items are listed below and will be available as enlargement prints. The entire reel may be purchased as a microfilm for $7.00. Please include PB and frame numbers when ordering individual items. In German.

Frames	Title	Price
7545-7548 PB L 84448	STAHLWERK MARK METALLURGIE A.G., HAMBURG-WILHELMSBURG. Method of producing a technical carbon free manganese-copper alloy by using blast furnace ferromanganese. Ger. patent application St 62241, dated Sep 9, 1942. In German. Addition to patent application St 61109 VI/400.	$ 2.00
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7567-7572 PB L 84448	Method of producing hard metal alloys. Ger. patent application H 164538, dated Feb 8, 1941. In German.	2.00
7573-7577 PB L 84448	Method of producing hard metal alloys for tools and fixtures. Ger. patent application H 164537, dated Feb 8, 1941. In German.	2.00
7578-7586 PB L 84448	I. G. FARBENINDUSTRIE, FRANKFURT/MAIN. Method of eliminating silicon from aluminum-silicon alloys. Ger. patent application dated Aug 14, 1941. In German.	2.00
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SCHLADITZ, HERMAN, and BORCHERS, HEINZ. (Inventors). Method of making articles from any powder particles size and shape according to powder metallurgical, ceramic or similar processes, using coated powder particles. Ger. patent application Soh 122014, dated Feb 19, 1941. In German. 2.00

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SCHIER, RICHARD. (Inventor). Material for electrical contacts and method for making of same. Ger. patent application Soh 122027 VIb/40b, dated Feb 22, 1941. In German. 2.00

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Price: Microfilm-$7.00 - Enlargement print-$100.00
This reel, prepared by FIAT investigators in Germany contains 223 applications of class 40b. Individual items are listed below and will be available as enlargement prints. The entire reel may be purchased as a microfilm for $7.00. Please include PB and frame numbers when ordering individual items. In German.

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9943 PB L 84455 — BRANDNER, KARL (Inventor). Alloys of metals with their own oxides. Ger. patent application B 205 326 VIa/40b dated Feb 17, 1944. In German. 2.00

9944-9950 PB L 84455 — BOSCH, ROBERT, G.M.B.H., STUTTGART. Method for the production of alloys by condensation from the vapor phase. Ger. patent application B 205 396 VIa/40b, n.d. In German. 2.00

9951-9953 PB L 84455 — Zinc alloys. Ger. patent application M 147 217 dated Mar 4, 1940. In German. 2.00

9954-9957 PB L 84455 — METALLGESELLSCHAFT A.G., FRANKFURT AM MAIN. Zinc alloys containing aluminum with a high notch toughness at low temperatures. Ger. patent application M 145 450 dated Jun 30, 1939. In German. 2.00

9958-9960 PB L 84455 — Pyrophoric alloys. Ger. patent application K 168 472 dated May 18, 1943. In German. 2.00

9961-9964 PB L 84455 — METALLGESELLSCHAFT A.G., FRANKFURT AM MAIN. Machine parts with a high fatigue strength. Ger. patent application M 114 373 dated Mar 5, 1931. In German. 2.00

9965-9967 PB L 84455 — LICENTIA PATENT-VERWALTUNGS G.M.B.H., BERLIN. Zinc alloys. Ger. patent application L 99 394 VIa/40b dated Nov 3, 1939. In German. 2.00

9968-9973 PB L 84455 — Aluminum alloy. Ger. patent application H 173 118 date illegible. In German. 2.00

9974-9978 PB L 84455 — KAISER WILHELM INSTITUT FÜR METALLFORSCHUNG, STUTTGART and MEINECKE-METALLURGIE G.M.B.H., BRESLAU. Aluminum-zinc alloy. Ger. patent application K 168 704 dated Jun 8, 1943. In German. 2.00

9979-9983 PB L 84455 — Refining process for scraps of aluminum and aluminum alloys. Ger. patent application M 106 821 dated Jan 30, 1940. In German. 2.00

9984-9991 PB L 84455 — AKTIS STUDIENGESELLSCHAFT FÜR KOHLEFORSCHUNG M.B.H., BERLIN-CHARLOTTENBURG. Method and device for the production of parts as for instance, work pieces or tools from metal powder or metal powder mixtures. Ger. patent application A 71 239 VI/40b dated Aug 31, 1935. In German. 2.00

9992-9995 PB L 84455 — SIEBERT, G., G.M.B.H., PLATINSCHMELZE, HANAU A.M. Material for fuses. Ger. patent application S 145 378 dated May 6, 1941. In German. 2.00

9996-9998 PB L 84455 — MEUTSCH, VOIGTLÄNDER & CO. Method for the production of alloys. Ger. patent application S 128 377 VI/40b dated Oct 10, 1941. In German. 2.00

9999A-9999F PB L 84455 — SIEMENS & HALSKE A.G., BERLIN-SIEMENSSTADT. Alloy for permanent magnets. Ger. patent application dated Jan 7, 1937. In German. 2.00

1-3 PB L 84455 — Spinning nozzle. Ger. patent application A 100 193 VIa/40b dated Aug 17, 1944. In German. 2.00

4-6 PB L 84455 — Spinning nozzle. Ger. patent application A 100 194 VIa/40b dated Aug 17, 1944. In German. 2.00

7-14 PB L 84455 — HAUSER, MAX (Inventor). Method and production of shaped metal bodies. Ger. patent application H 174 160 VIa/40b dated May 20, 1944. In German. 2.00

15-77 PB L 84455 — GUARTLER, WILLIAM (Inventor). Resistance material and building material resistant to scale. Ger. patent application J 90 344

dated Apr 29, 1935. In German. 2.00
Supplement to patent application G 85 423 VI/40b.

18-19 GUERTLER, WILLIAM (Inventor).
PB L 84455 Resistance material and building material resistant to scale. Ger. patent application G 90 437 dated May 14, 1935. In German. 2.00

20-22 HERAEUS, W.C., G.M.B.H., HANAU.
PB L 84455 The use of platinum alloys for parts subjected to molten silicates. Ger. patent application H 163 368 VI/40b dated Nov 3, 1942. In German. 2.00
Part of patent application H 160 734 VI/40b with the priority of Oct 10, 1939.

23-25 HERAEUS-VACUUMSCHMELZE A.G., HANAU.
PB L 84455 Heat-proof alloy. Ger. patent application 147 249 dated Apr 6, 1936. In German. 2.00
Supplement to patent application H 139 607 VI/40b.

PB L 90297. STEFFE & NAESER, HUECKINGEN. Decarbonising of pig iron: patent application. (BIOS Microfilm Reel FD 1159/46, Frames 1-6; BIOS/DOCS/Gp 2/HEC 621) 1941. 6 f. Price: Microfilm-$1.00 - Enlargement print-$2.00
In English.

PB L 90297-S. STEFFE & NAESER, HUECKINGEN. Decarbonising of pig iron: patent application. (BIOS Microfilm Reel FD 1159/46, abstract) 1941. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

TEXTILES AND TEXTILE PRODUCTS

PB L 73203. I. G. FARBENINDUSTRIE A. G., FRANKFURT AM MAIN, GERMANY. "Patentbericht," section rayon. (See also FIAT Microfilm Reel B 22, PB 73202) (FIAT Microfilm Reel B 23, Frames 35461-36463) Jan 1941-Apr 1943. 1002 f. Price: Microfilm-$6.00 - Enlargement print-$101.00
This film reproduces issues of I. G. Wolfen's "Patentbericht," Ausgabe Kunstseide (Patent reports, rayon edition) January 1941 to April 1941. In these reports patents and patent applications in the field of rayon and related subjects are listed by numbers, dates, names of applicants, and principal claims. In German.

MISCELLANEOUS

PB L 90026. FLUGFUNK-FORSCHUNGSINSTITUT OBERPFAFFEN-HAFEN. Patents. (BIOS Microfilm Reel FD 195/46, Frames not numbered; BIOS/DOCS/ADI/(K) 175/48) 1937-1945. 1405 f. Price: Microfilm-$7.00 - Enlargement print-$142.00
In German.

PB L 90026-S. FLUGFUNK-FORSCHUNGSINSTITUT OBERPFAFFEN-HAFEN. Patents. (BIOS Microfilm Reel FD 195/46, abstract) 1937-1945. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00
In English.

TECHNICAL ORDERS

ELECTRICAL MACHINERY EQUIPMENT AND SUPPLIES

Communication Equipment

PB L 91973. GALVIN MFG. CORP., CHICAGO. Radio receiver and transmitter BC-721-A. Schematic diagram: part of radio set SCR-585A. (Tech Order 08-10-123) Apr 1942. 8 p Price: Microfilm-$1.00 - Photostat-$1.00

PB L 44399-R3. U. S. ARMY AIR FORCES. AAF radio data and flight information. (Supersedes issue of May 15, 1947, PB 44399-R) (Tech Order 08-15-2) Sep 1947. 55 p. Price: Microfilm-$2.00 - Photostat-$4.00

PB L 85250. U. S. ARMY AIR FORCES. Boeing - modification of the VHF radio installation - B-29 series and F-13 series. (Supersedes issue of Apr 30, 1947). (Tech Order 01-20EJA-79). Jul 1947. 37 p. Price: Microfilm-$1.75 - Photostat-$4.00

PB L 87493. U. S. AIR FORCE. Boeing: Replacement of pilot's and copilot's microphone switches - B-29 series, F-13 series. (Tech Order 01-20EJA-92). Oct 1947. 3 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 85244. U. S. ARMY AIR FORCES. Douglas - modification of radio sets SCR-274-N and SCR-522-A with radio set AN/ARC-3 - C-54 series. (Tech Order 01-40NM-183). Jul 1947. 8 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 80453-S. U. S. ARMY AIR FORCES. North American: Installation of radio set AN/ARC-3 and interphone system AN/AIC-2 - AT-6D and AT-6F. (Supplement to PB 80453). (Tech Order 01-60FF-12A). Sep 1947. 4 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 62589-S. U. S. ARMY AIR FORCES. Outline of the four echelons of maintenance-communications equipment-radio and tactical wire. (Supplement to PB 62589). (Tech Order 16-1-60A). Jun 1947. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 85231. U. S. ARMY AIR FORCES. Republic - installation of radio set AN/ARC-3 - P-47N and TP-47N. (Tech Order 01-65BD-36). May 1947. 26 p. Price: Microfilm-$1.50 - Photostat-$3.00

Technical Orders Communication Equipment (contd)

PB L 81269. U. S. ARMY AIR FORCES. Service instructions for type M-290A and M390B parachutes used in connection with dropping of radio set AN/CRT-2. (Tech Order 13-5-5). Apr 1947. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 44399-R-2. U. S. AIR FORCE. United States Air Force: Radio data and flight information. (Revision of PB 44399). (Tech Order 08-15-2). Nov 1947. 55 p. Price: Microfilm-$2.00 - Photostat-$4.00

PB L 34516-R12. U. S. AIR FORCE. USAF radio facility charts, corrected to include Airman's Guide, vol. 21, 6 Jan 1948. (Supersedes issue of Dec 1947, PB 34516-R11). (Tech Order 08-15-1). Jan 1948. 119 p. Price: Microfilm-$3.00 - Photostat-$8.00

Electronics

PB L 44793-R. U. S. AIR FORCE. Handbook, maintenance instructions: Transmitting equipment AN-APT-1. (Revision of PB 44793). (Tech Order AN 16-30APT1-2-4). Jan 1948. 5 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 57177-R. U. S. ARMY AIR FORCES. Handbook of maintenance instructions for radio set AN/APG-1. (Partial revision of PB 57177). (Tech Order AN 16-30APG1-3). Sep 1947. 17 p. Price: Microfilm-$1.00 - Photostat-$2.00

PB L 44636-R2. U. S. ARMY AIR FORCES. Handbook of maintenance instructions for radio set AN/APS-10. (Partial revision of PB 44636; for additional partial revision see PB 44636-R) (Tech Order AN 30APS10-3) Aug 1947. 20 p. Price: Microfilm-$1.00 - Photostat-$2.00

PB L 87708. U. S. ARMY AIR FORCES. Inspection and rework, if required - AN/ARA-8. (Tech Order 16-30ARA8-22). Sep 1947. 4 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 87710. U. S. ARMY AIR FORCES. Installation of provisions for modulator - AN/CRM-10. (Tech Order 16-30CRM10-21). Sep 1947. 5 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 81263-S. U. S. AIR FORCE. Modification to prolong life of power amplifier tubes AN/CRN-2. (Supplement to PB 81263). (Tech Order 16-30CRN-2-22A). Nov 1947. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 81270. U. S. ARMY AIR FORCES. Radio, radar and electronics spare parts list for power unit PU-1/CRN-2. (Tech Order 16-55-336). Mar 1947. 3 p. Price: Microfilm-$1.00 - Photostat-$1.00

TRANSPORTATION EQUIPMENT

AERONAUTICS

Aircraft

PB L 47050-R. U. S. AIR FORCE. Beech - inspection of landing gear retracting mechanism gear - all series of AT-7, AT-11, C-45, CQ-3 and F-2. (Supersedes issue of Aug 1947, PB 47050). (Tech Order 01-90-57). Nov 1947. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 85227. U. S. ARMY AIR FORCES. Beech - modification of actuator assembly, warning horn throttle switch - AT-7, AT-11, C-45, CQ-3 and F-2 series. (Tech Order 01-90-60). Jul 1947. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 85219. U. S. ARMY AIR FORCES. Beech - modification of nose baggage compartment fuel tank installation - AT-7, C-45, CQ-3 and F-2 series. (Tech Order 01-90-59). Jul 1947. 3 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 85234. U. S. ARMY AIR FORCES. Bell - Replacement of transmission bolts - YR-13 and HTL-1. (Tech Order 01-110HAA-11). Jun 1947. 1 p. Price: Microfilm-$1.00 Photostat-$1.00

PB L 85239. U. S. ARMY AIR FORCES. Boeing - installation of crew warning signal - B-17G and F-9. (Tech Order 01-20-35). Jul 1947. 3 p. Price: Microfilm-$1.00-Photostat-$1.00

PB L 85232. U. S. ARMY AIR FORCES. Boeing - installation of decal in tail gunner's compartment - B-29 and F-13 series. (Tech Order 01-20EJ-179). Jun 1947. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 85247. U. S. ARMY AIR FORCES. Boeing - installation of standard air crew check lists - B-29 series. (Supersedes issue of Oct 10, 1946). (Tech Order 01-20EJA-76). Jul 1947. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 85220. U. S. ARMY AIR FORCES. Boeing - rerouting of shoulder harness straps - PT-13 and PT-17 series. (Tech Order 01-70A-40). Jun 1947. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 86987. U. S. AIR FORCE. Curtiss - inspection and rework of hydraulic lines - C-46 series. (Tech Order 01-25L-106). Dec 1947. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 85238. U. S. ARMY AIR FORCES. Curtiss - installation of central control CO_2 fire extinguishing system - engine and cargo compartment - C-46D and C-46F. (Tech Order 01-25LA-205). Jun 1947. 52 p. Price: Microfilm-$2.25 - Photostat-$6.00

PB L 87546-R. U. S. AIR FORCE. Douglas - Installation of emergency main landing gear uplatch release - A-26 series. (Supersedes issue of Oct 1947, PB 87546. (Tech Order 01-40AJ-111). Feb 1948. 10 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 85242. U. S. ARMY AIR FORCES. Douglas - modification of handle, pilot's enclosure door emergency release - A-26 series. (Tech Order 01-40AJ-115). Jul 1947. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 85216. U. S. ARMY AIR FORCES. Fairchild - installation of auxiliary ventilators - C-82A. (Tech Order 01-115CBA-34). Aug 1947. 5 p. Price: Microfilm-$1.00- Photostat-$1.00

PB L 85230. U. S. ARMY AIR FORCES. Fairchild - installation of landing light shield - C-82A. (Tech Order 01-115CBA-26). Jun 1947. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 85217. U. S. ARMY AIR FORCES. Grounding of YP-84, P-84B, XB-43, XB-45, XB-46 and XB-48. (Tech Order 01-1-305). Jul 1947. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 46907-R4. U. S. AIR FORCE. Handbook, erection and maintenance instructions: USAF model AT-11, Navy model SNB-1 aircraft. (Partial revision of PB 46907; for additional partial revisions see PB 46907-R - PB 46907-R3). (Tech Order AN 01-90KC-2). Dec 1947. 5 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 85209-R2. U. S. ARMY AIR FORCES. Handbook, erection and maintenance instructions: USAF models YC-97, YC-97A and YC-97B aircraft. (Partial revision of PB 85209; for additional partial revision see PB 85209-R). (Tech Order AN 01-20CA-2). May 1947. 128 p. Price: Microfilm-$4.00 - Photostat-$13.00

PB L 86989. U. S. AIR FORCE. Handbook, overhaul instructions: Wheel brakes, hydraulically operated. (Bendix). (Tech Order AN 03-25CAB-1). Nov 1947. 14 p. Price: Microfilm-$1.25 - Photostat-$2.00

PB L 86988. U. S. AIR FORCE. Lockheed - flight restrictions - all P-80 series. (Supersedes issue of May 1947). (Tech Order 01-75FJ-30). Dec 1947. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 85233. U. S. ARMY AIR FORCES. Lockheed - inspection and installation of canopy emergency release lanyard and reinforcing sleeve - P-80A and FP-80A. (Tech Order 01-75FJA-2W-10). Jun 1947. 3 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 89703. U. S. AIR FORCE. Lockheed - modification of support rudder torque tube counter weight - P-80A, FP-80A and P-80B. (Tech Order 01-75FJ-36). Mar 1948. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 85222. U. S. ARMY AIR FORCES. Lockheed - replacement of pawl springs in canopy operating mechanism - P-80A and FP-80A. (Tech Order 01-75FJA-2W-9). Jun 1947. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 85245. U. S. ARMY AIR FORCES. Lockheed - reuse of canopy bulkhead - P-80A and FP-80A. (Tech Order 01-75FJA-2W-11). Jul 1947. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 85246. U. S. ARMY AIR FORCES. Lockheed - wiring hydraulic system hydrofuse in reset open position - P-80A-5, FP-80A-5 and P-80B series. (Tech Order 01-75FJ-27). Jul 1947. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 85229. U. S. ARMY AIR FORCES. Lockheed - removal of paint - P-80A and FP-80A. (Tech Order 01-75FJA-16). Jun 1947. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 85251. U. S. ARMY AIR FORCES. Lockheed - Replacement of main landing gear actuating cylinders - P-80A and FP-80A. (Tech Order 01-75FJA-20-1). Jun 1947. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 85215. U. S. ARMY AIR FORCES. North American - grounding of AT-6 series aircraft. (Tech Order 01-6H-2). Aug 1947. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 85243. U. S. ARMY AIR FORCES. North American - heat and vent system revision - P-51D and F-51K series. (Tech Order 01-80JE-38). Jul 1947. 8 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 85241. U. S. ARMY AIR FORCES. North American - modification of landing gear warning and indicating system - P-51H. (Tech Order 01-80JF-25). Jun 1947. 5 p. Price: Microfilm-$1.00 - Photostat-$1.00

Technical Orders Aircraft (contd)

PB L 85223. U. S. ARMY AIR FORCES. North American - removal of spring, pilot's escape hatch lock - B-25, CB-25 and TB-25 series. (Tech Order 01-60D-121). Jun 1947. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 85225. U. S. ARMY AIR FORCES. North American - servicing procedure - B-25J. (Tech Order 01-60GE-36). Jul 1947. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 42181-R2. U. S. AIR FORCE. Parts catalog: USAF model B-29 aircraft. (Partial revision of PB 42181; for additional partial revision see PB 42181-R). (Tech Order AN 01-20EJ-4). Oct 1947. 13 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 86990. U. S. AIR FORCE. Parts catalog: Wheel brakes, hydraulically operated. (Bendix). (Tech Order 01-250AB-2). Nov 1947. 6 p. Price: Microfilm-$1.00- Photostat-$1.00

PB L 45988-R5. U. S. ARMY AIR FORCES. Parts catalog for C-74 airplanes. (Supersedes basic report, Mar 28, 1946). (Tech Order AN 01-40NT-4, Rev.). May 1947. 705 p. Price: Microfilm-$15.00 - Photostat-$47.00
PB L 45988-R3, dated Jul 1947, and PB L 45988-R4, dated Sep 1947, are partial revisions of this publication. Both are listed in v. 9, p. 276, this Bibliography.

PB L 85252. U. S. ARMY AIR FORCES. Sikorsky - rework of oil pressure relief valve - YR-5A, R-5A, YR-5D, R-5D, YR-5E and HOZS-1. (Tech Order 01-230HB-18). Jun 1947. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 39697-R3. U. S. AIR FORCE. Use of needed parts from disabled and wrecked aircraft. (Supersedes part of PB 39697) (Tech Order 00-25-21) Feb 1948. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00

Engines and Propellers

PB L 81207-S. U. S. AIR FORCE. Boeing - installation of exhaust rear manifold assemblies - B-29 series, XC-97 and YB-29 series. (Supplements PB 81207). (Tech Order 01-20EJ-177A). Dec 1947. 3 p. Price: Microfilm-$1.00- Photostat-$1.00

PB L 85249. U. S. ARMY AIR FORCES. Douglas - modification of engine throttle propeller reversing controls - C-74 series. (Tech Order 01-40NT-11). Jul 1947. 7 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 81230-R. U. S. AIR FORCE. Handbook, operation and service instructions: Hydraulic propeller, model A3229-A1. (Aeroproducts). (Partial revision of PB 81230). (Tech Order AN 03-20EH-1). Jan 1948. 11 p. Price: Microfilm-$1.25 - Photostat-$2.00

PB L 46315-R2. U. S. AIR FORCE. Handbook, operation, service and overhaul instructions: quick-feathering hydromatic propellers. (Hamilton Standard). (Partial revision of PB 46315; for additional partial revision see PB 46315-R). (Tech Order AN 03-20CC-1). Feb 1948. 15 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 85240. U. S. ARMY AIR FORCES. Inspection of AN4100, AN4101, AN4102 and types C-6, C-9 and C-10 fuel pumps - A-26, AT-7, AT-11, B-17, B-24, B-25, B-29, C-45, C-46, C-47, C-54, C-64, C-69, C-74, C-82, C-97, C-117, F-2, F-6, F-9, F-13, F-15, OA-10, P-47, P-51, P-61, P-63 and P-82 - all series. (Supersedes issue May 14, 1947). (Tech Order 01-1-299). Jul 1947. 1 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 85218. U. S. ARMY AIR FORCES. Northrop - replacement of engine oil outlet connector assembly - P-61C. (Tech Order 01-15FC-11). Aug 1947. 2 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 57229-R2. U. S. AIR FORCE. Parts catalog: Propellers, models A542F-D1 and A1542F-D1. (Aeroproducts). (Supersedes PB 57229-R). (Tech Order AN 03-20EG-3). Jan 1948. 14 p. Price: Microfilm-$1.00 - Photostat-$1.00

MISCELLANEOUS

PB L 43638-R2. U. S. ARMY AIR FORCES. General: Aircraft camouflage, markings, and insignia. (Revision of PB 43638). (Tech Order 07-1-1). Sep 1947. 13 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 43640-R. U. S. ARMY AIR FORCES. General: Health promotion of personnel engaged in doping and painting. (Revision of PB 43640). (Tech Order 07-1-4). Jul 1947. 5 p. Price: Microfilm-$1.00 - Photostat-$1.00

PB L 41896-R. U. S. ARMY AIR FORCES. Instructions for arctic operation. (Revision of PB 41896). (Tech Order 00-60B-1). Aug 1947. 56 p. Price: Microfilm-$2.00 - Photostat-$4.00

PB L 42009-R3. U. S. ARMY AIR FORCES. List of AAF property to be returned to the United States. (Supersedes PB 42009). (Tech Order 00-35A-32, rev.). Mar 1947. 304 p. Price: Microfilm-$7.00 - Photostat-$21.00

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

Information on the following patents can be obtained from the U. S. Patent Office, Washington 25, D. C.

The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget.

Official Gazette, May 4, 1948

PAT. 2,415,688. Induction device. Patented Feb 11, 1947.
This invention eliminates the use of cords or wires on portable electrical appliances such as irons, toasters, and percolators. This is accomplished by concealing one or more primary transformers in the walls, floors, cabinets, or other fixtures and providing a secondary transformer in the appliance. These two portions form a complete transformer unit, the two parts arranged for coupling and uncoupling. Especially useful when combined with ironing boards. Electrical energy is supplied to the iron by a primary transformer positioned in a cavity in an ironing board. The secondary portion is provided in the iron. (Owner) Helen J. Hall, 1619 Shatto St., Los Angeles 14, Calif. Group 36—21. Reg. No. 9,546.

PAT. 2,433,252. Direction signal for motor vehicles. Patented Dec 23, 1947.
Signal light has an endless series of revolving arrows which light up in succession as they travel past a window in light housing. The direction of the arrows is automatically reversed to indicate either a right or left hand turn. Several moving arrows may be simultaneously observed in the window. The arrows are formed by an endless series of registering window openings in a pair of cylindrical rotating shields concentrically mounted on a common central bearing pin. A reversible motor drives one of the shields in either direction, while the other shield is indirectly driven by a lost motion connection between the two shields. The lost motion connection permits the plates to shift relative to each other to change the direction of the arrows before both plates revolve as a unit. (Owner) Ray H. Zull, 14243 Delano St., Van Nuys, Calif. Group 38—11—31. Reg. No. 9,547.

PAT. 2,426,291. Dishwashing machine. Patented Aug 26, 1947.
Machine automatically washes, rinses, and dries dishes, and shuts off. Dishes are arranged in the racks of a basket supported within a cylindrical tank. The basket is driven by impact of water from a whirling spray confined within the tank, which causes the basket to be driven first in one direction, come to rest, and then in opposite direction. This reversing action is designed to insure both sides of the dishes being washed clean. A metering device for soap powder or other cleaning agent introduces a concentrated solution into the water for about three-fourths of the operation of the machine, after which the discharge of the solution decreases until the dishes are rinsed in clear water. The dishes are dried by air entering louvers of a housing which encloses the tank. (Owner) Victor R. Abrams, 1834 National Ave., Rockford, Ill. Group 35—89. Reg. No. 9,548.

PAT. 2,434,693. Vehicle having a body carried by two opposing journals on two wheel-supported frames. Patented Jan 20, 1948.
Relates to tractors or other vehicles to be driven over rough ground. Each side of the vehicle body is provided with a single running gear, each consisting of a carrier frame with at least two wheels rotatably mounted in the frame. Each carrier frame carries a journal for pivotally attaching the frames to the body. The journals extend into the interior of the body. At least one equalizing device interconnects the journals within the body so that the two frames are capable of unlimited swinging or rotational movement in opposite directions relative to the body. The equalizer effects equal distribution of the load and enables the supporting tractor wheels (or other members) journaled in the carriers to adapt themselves to the surface of the ground. The equalizing device is also adjustable to permit the vehicle body to be tilted around the carrier journals without changing the mutual position of the frames. Since the equalizing device is positioned above the bottom of the vehicle body, it cannot become damaged by striking stones, stumps, or other obstructions. Modifications are shown. (Owner) Edward Graham, Norr Malarstrand 34, Stockholm, Sweden. Group 35—21. Reg. No. 9,549.

PAT. 2,435,661. Pencil sharpener. Patented Feb 10, 1948.
A pencil may be sharpened with one hand while this sharpener rests unsecured on a flat surface. Pencil with its end inserted in top of sharpener is pressed downwardly, causing a plunger carrying spaced segmental abrading jaws to rotate and sharpen pencil. Cuttings fall into a removable receptacle in base. The plunger is slidably mounted inside a hollow cylinder having a spiral groove which cooperates with protruding screws on sides of plunger to impart rotary movement to plunger. The screws removably hold the segmental jaws and spacer strips between the jaws in assembled relationship. (Co-owner) Carl C. Weathers, 220 South Martinson, Wichita 12, Kans. Group 39—51. Reg. No. 9,550.

PAT. 2,430,997. Convertible center drill and live and dead center. Patented Nov 18, 1947.
Tool for lathes is provided with an eccentrically mounted cam which may be manually rotated to three different positions to selectively convert tool into a center drill, a live center, or a dead center. Tool consists of a sleeve having a tapered axial shank for attachment to a lathe, and a work center rotatably mounted on bearings within the sleeve. An adjustable center drill is slidably mounted within a channel in the work center. The eccentric cam is mounted for rotation opposite a transverse slot formed across the inner end of the work center. In one position the cam extends into the slot and locks the work center against rotation relative to the sleeve, resulting in a dead center. In another position the cam extends farther into the slot and advances the center drill for center drilling operations. In its third position the cam clears the slot, permitting retraction of the drill and free rotation of the work center, thus resulting in a live center. (Owner) John H. Schmidt, 249 Santa Rosa Ave., Oakland 10, Calif. Group 35—41—43. Reg. No. 9,551.

PAT. 2,205,148. Electric die threader. Patented Jun 18, 1940.
Portable power-driven threading tool may be used in restricted places and permits the use of either square or round dies. Tool has a relatively flat tapering metal frame with removable side plates which form radial and thrust bearings for a combined worm wheel and die holder, preferably formed in one piece. An electric motor, with

a handgrip attached, is secured to the wide end of the frame, and another handgrip is secured to the narrow end of the frame. Shifting a finger piece will reverse transmission gearing to drive the worm wheel and holder in opposite directions. By removing one of the side plates the worm wheel and die holder may be removed and another substituted. (Owner) Frank E. Mayotte, 30 Temple St., Adams, Mass. Group 35--41--43. Reg. No. 9,552.

PAT. 2,403,158. Electric soldering iron. Patented Jul 2, 1946.
Iron, shaped like a projectile, has a tapering front end, a pistol grip, and an associated springed trigger by means of which the flow of melted solder may be controlled. Solder, in stick form, is inserted in a tube which tapers at its front end to provide a restricted discharge passage. A plug-type valve is rotatably mounted in the passage and is controlled by a rod connected to the trigger. A heating coil is wound on a sleeve which surrounds the tapered end of the tube. The entire tube is housed within the barrel which is fully insulated so that the iron may be safely handled. Melted solder is discharged only when the trigger is pulled. (Co-owner) O. Wertheim, 1416 Park Place, Brooklyn 13, N. Y. Groups 36--21; 40. Reg. No. 9,553.

PAT. 2,407,017. Potato sacker. Patented Sep 3, 1946.
A potato-screening and -sacking trailer is attached to the rear of potato-digging machine. An endless screening conveyor, driven from the digging machine, is carried by a wheel-supported elongated rigid frame. Conveyor travels upwardly and rearwardly around the frame, over a hopper having an inclined grill screening discharge chute. Potatoes from the digging machine are deposited in a trough at forward end of frame. The conveyor moves the potatoes upwardly in the trough and over hopper, where they drop through openings in the conveyor into hopper and gravitate into sack supported on platform beneath. Running boards along lower sides of frame accommodate sacks and workmen. (Owner) Herman L. Keller, Rt. 3, Decherd, Tenn. Group 35--22. Reg. No. 9,554.

PAT. 2,416,855. Tire inflation stand. Patented Apr 15, 1947. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.)
A stand adapted to support a tire assembly between two uprights during inflation in such a manner that lock rim is retained against being thrown off. A pair of spaced uprights (of steel plate or the like) are held near lower edge by a pair of spindles spaced in parallel relation. Rear upright is secured to spindles. Front upright is slidable on spindles toward other upright by means of sleeves secured to this upright. A connecting tie rod is adapted to clamp uprights against tire assembly held therebetween. Tie rod is held against rotation by a lever attached to rear upright. A cut-out portion in front upright provides access to tire valve. (Owner) T. Vinton Smith, 946 West First South, Salt Lake City, Utah. Groups 33--59; 38--31. Reg. No. 9,555.

PAT. 2,436,226. Mail crane. Patented Feb 17, 1948.
A mail-bag suspension arrangement for supporting mail bags to be picked up by trains or other vehicles passing at high speed. Crane has a fixed upright with suspension arms pivoted thereto. A mail bag (with constricted middle zone) has a ring at each end which slips over a bolt pivotally mounted at end of each arm, holding bag in upright position. Upper arm is spring tensioned to move upward when not held in horizontal position by bag, while lower arm falls down by gravity. A spring-pressed device is provided near center of upright to catch center of a cord attached to top and bottom of mail bag and to hold cord out in tensioned triangular loop form. Through this triangular loop the bag may be easily caught by a crane arm on a passing vehicle or by a cable lowered from a plane. Modifications are shown. (Owner) Irvin Pendleton, Campbellsburg, Ky. Group 35--69. Reg. No. 9,556.

PAT. 2,423,512. Safety fuse outlet plug. Patented Jul 8, 1947.
A safety fuse outlet plug provided with a series of fuses. When a short, overload, or other disturbance occurs in appliance to which the plug is attached, the blown fuse will be in the plug itself and not in the main fuse box, thus avoiding disruption of the entire system connected by a main fuse. Another fuse connection may be made by rotating the fuse cartridge a fraction of a turn. When all the fuses are exhausted on a cartridge, another can be quickly substituted. (Co-owner) John T. Graffin, P. O. Box 379, Guatemala City, Guatemala, C. A. Group 36--11. Reg. No. 9,557.

PAT. 2,435,875. Heating and cooling system for houses. Patented Feb 10, 1948.
System utilizes ducts as a means for conveying the heated or cooled air to the rooms of house. Through utilization of the hot combustion gases of the hot water heater and by directing them through a heat exchange unit located in the duct, additional heat is obtained for heating the house. In the summer cold water may be directed through a second heat exchange unit located in the duct, making it possible to circulate a cooling air through the rooms of the house. (Owner) Andrew De Lore. Address correspondence to Munn, Liddy & Glaccum, 24 West 40th St., New York 18, N. Y. Group 35--84. Reg. No. 9,558.

PAT. 2,435,665. Continuous process centrifuge. Patented Feb 10, 1948.
A device for separating fluid materials such as sand containing water. Comprises a rotating shell divided into chambers and having a central opening at top and bottom and a tubular post extending through the center with a drive shaft at upper end. The material entering the shell forms a wall against the shell so that liquids will flow downwardly to a separate delivery opening. In one chamber an overbalancing initial centrifugal pressure is generated to force the material through the machine where it will assume paths of rotation natural to their gravity characteristics. Each path is forced through the machine to separate deliveries by excess pressure established as additional material enters the machine. (Owner) George I. Woolaver, 33 Church St., High Bridge, N. J. Group 35--59. Reg. No. 9,559.

PAT. 2,431,530. Potato mold. Patented Nov 25, 1947.
Device is used to mold mashed or chopped food into cake form and dispense cake without breaking. Base of device with supporting legs has a central spoon-shaped molding bowl. A relatively wide removable ring surrounds rim of bowl and rests on base to receive and hold food to be molded. A removable plunger forming upper part of mold is used to compact and form cake. Bowl is apertured to effect a grating for venting and also permit excess food to drop therethrough during molding. Base carries a handle at opposite ends with each handle having an upstanding stem forming bumpers. After cake is molded, plunger and ring are removed. Base is then inverted and bumpers struck against a flat surface so that cake will

drop from bowl. Modifications shown. (Owner) Thomas Wiley, Sarona, Wis. Groups 34—41; 39—81; 40. Reg. No. 9,560.

The following are part of 25 patents relating to chemical processes. The remaining 15 will be published in the May 11 issue. Inquiries concerning the patents should be addressed to the owner, Walter G. Berl, 529 Dale Drive, Silver Spring, Md.

PAT. 2,039,290. Production of highly acetylated cellulose acetates. Patented May 5, 1936.
A highly acetylated cellulose acetate is produced by circulating an excess of acetic acid over a mass of cellulose held stationary on a perforated base, after which benzene is used to remove most of the acetic acid. Acetic anhydride containing a swelling agent is then used and the cellulose produced then treated with a warm solution of a neutral salt containing sodium sulphate. The resulting triacetylated products have great stability and uniformity. Group 28—51—83. Reg. No. 9,561.

PAT. 2,040,971. Cellulose ester compositions. Patented May 19, 1936.
Citric acid esters of an aliphatic alcohol such as amyl or butyl citrate incorporated in cellulose triacetate have the effect of a plasticiser which increases and maintains flexibility. Films, threads, wrapping sheets, molding compositions, lacquers, waterproofing coatings, and other cellulose products obtained are free from cracking or brittleness. The citric acid esters also produce a matt finish on artificial silk as well as increase elongation properties permitting a certain amount of stretching during spinning operations. Group 28—51—83. Reg. No. 9,562.

PAT. 2,084,833. Process for the manufacture of highly acetylated cellulose acetates. Patented Jun 22, 1937.
Cellulose is hydrolysed with glacial acetic acid which contains small amounts of a catalyst such as sulphuric acid not at the usual temperatures of 60°-70° C., but at lower temperatures which do not exceed 30° C., after which the acetylation by means of acetic anhydride can be effected in any way at a temperature not exceeding 0° C. Films, foils, and artificial silks are distinguished by their great insensitiveness and imperviousness to water. The highly acetylated products obtained by the process may be combined with other cellulose derivatives. For example, by dissolving triacetate manufactured according to the patent together with cellulose nitrate in methyl formate and denitrating, material useful for sausage skins may be obtained. Group 28—51—83. Reg. No. 9,563.

PAT. 2,110,642. Manufacture of cellulose esters. Patented Mar 8, 1938.
This patent describes a two-stage process in which esterification in suspension of pretreated cellulosic material proceeds more smoothly and with less undesirable heat than formerly, and in which the esters obtained are uniform and possess valuable properties. Esterification is carried out with the aid of an aliphatic ester as a diluting agent that is a non-solvent for the cellulose ester to be produced. The aliphatic ester used corresponds to the same acid as that which corresponds to the ester to be produced. For example, in making cellulose triacetate, the ester used is ethyl, propyl, or butyl acetate. Group 28—51—83. Reg. No. 9,564.

PAT. 2,121,899. Treatment of cellulose triacetate. Patented Jun 28, 1938.
Cellulose triacetate is rendered soluble in acetone by treating it at a raised temperature with a substantial quantity of an alcohol having a swelling or solvent action (such as isobutyl alcohol) in the presence of a small amount of an esterifying catalyst such as phosphoric or sulphuric acid. Group 28—51—83. Reg. No. 9,565.

PAT. 2,122,448. Process for the manufacture of products made from cellulose derivatives. Patented Jul 5, 1938.
Threads, filaments, ribbons, films, etc., are spun from a solution of cellulose nitrate in a bath containing approximately 17-23% ammonium nitrate, 24-30% water, and 50-56% alcohol. The solidified element formed is pulled at a rate of about 30 meters per minute with little stretching, after which it is passed into a bath having 80% alcohol. The element is converted from a solidified state to a plastic state and stretched. When dried the thread or the like has a dry strength of about 2.6 grams per denier, a wet strength of 1.5 grams per denier, and an elasticity of about 10%. Group 28—51—83. Reg. No. 9,566.

PAT. 2,125,880. Manufacture of mixed aliphatic-nitro cellulose and products thereof. Patented Aug 9, 1938.
Fatty acid nitrates of cellulose soluble in acetone are produced by acetylating cellulose nitrates with acetic anhydride in the presence of an inorganic acid catalyst. The acetylated nitrated cellulosic material is stabilized and then dissolved in a lower fatty acid (having not more than 5 carbon atoms) and heated in the presence of a catalyst until completely soluble in acetone. The material is then stabilized with liquid alcohols such as ethanol, methanol, and like compounds such as benzyl alcohol, glycol, etc. Group 28—51—83. Reg. No. 9,567.

PAT. 2,175,103. Manufacture of cellulose esters. Patented Oct 3, 1939.
Methods of obtaining a partially esterified cellulose mixed ester of good quality from a tri-substituted cellulose acetate are described in this patent. The cellulose acetate in fibrous form is dissolved by heating it with concentrated formic acid (85-95%) in the presence of sodium formate or a like salt of a weak acid capable of reacting with the residual acid catalyst until acetone solubility is reached. Products obtained are valuable in the manufacture of artificial silks, films, and foils. Group 28—51—83. Reg. No. 9,568.

PAT. 2,346,350. Highly substituted acetone-soluble cellulose acetate. Patented Apr 11, 1944.
Acetone-insoluble fibrous highly acetylated cellulose acetate (containing at least 58.5% of bound acetic acid) is made acetone-soluble by preparing a suspension of the acetate with destroyed fiber structure in acetone and subjecting it to suspension at a temperature of below -20° C. Group 28—51—83. Reg. No. 9,569.

PAT. 2,384,415. Continuous production and stabilization of nitrates of cellulose or nitrates of other alcohols like starch. Patented Sep 4, 1945.
The continuous production and stabilization of cellulose nitrates was of little value commercially in that the speed of nitration was not high enough. With this process nitration and stabilization may be effected in a short time. For example, using the same machines in which Cellophane is produced, dried thin sheets of permeable paper made from cellulose (practically free of lignin and other foreign substances) are introduced into a mixture of nitric acid, phosphoric acid, and free phosphoric acid anhydride (4-10%) at a temperature between 50°-70° C. Group 28—51—83. Reg. No. 9,570.

Patent Removed

PATENT 2,286,879, Reg. No. 5,527, has been licensed on an exclusive basis and is, therefore, removed from the Register.

Official Gazette, May 11, 1948

The following 15 patents complete the group of patents relating to chemical processes 10 of which were published in the May 4 issue. Inquiries concerning the patents should be addressed to the owner, Walter G. Berl, 529 Dale Drive, Silver Spring, Md.

PAT. 2,000,815. Process for carrying out electrochemical reactions. Patented May 7, 1935.
A layer of activated carbon deposited on a porous carbon electrode is used as an improved means for the production of hydrogen peroxide, perborates, etc. Several advantages are possible. For example, in the production of hydrogen peroxide it has been necessary to maintain oxygen at the cathode under very high pressure to effect sufficient reduction. With the use of the improved electrode gaseous substances introduced at the electrodes may be brought into contact with the electrolytically separated products without the use of high pressures and in such high concentration that the electrochemical process may be carried out at useful speeds. Modifications given. Groups 28--89; 36—12. Reg. No. 9,571.

PAT. 2,091,129. Electrochemical production of peroxides. Patented Aug 24, 1937.
A current density of at least 30 amperes per square decimeter of the cathode area is employed in this electrolytic process for obtaining hydrogen peroxide. The electrolyte used is withdrawn from the area of the cathode (which contains activated carbon) and reacted with a magnesium compound having the same anion as the soluble metal salt used in the electrolyte. Magnesium peroxide formed is separated and a purified electrolyte returned to the cell. Groups 28—89; 36—12. Reg. No. 9,572.

PAT. 2,091,130. Hydrogen peroxide. Patented Aug 24, 1937.
This process involves the increased production of hydrogen peroxide by electrolysis, using a cathode containing activated carbon. A current of 35 amperes per 100 square centimeters of cathode area is impressed across a diaphragm cell filled with an electrolyte comprising an anolyte and a catholyte containing a soluble metal salt. The catholyte is circulated to and from the cell through a separate saturator and saturated with oxygen at a pressure exceeding that in the cell. Increased hydrogen peroxide is obtained at the cathode in that substantially little elemental hydrogen is liberated during the operation. Groups 28—89; 36—12. Reg. No. 9,573.

PAT. 2,093,989. Process of effecting electrochemical reductions and oxidations. Patented Sep 28, 1937
Hydrogen peroxide may be produced continuously in the presence of a cathode containing active carbon. An oxygen-containing gas is passed in contact with the cathode so that the hydrogen liberated reduces the oxygen adsorbed by the active carbon. Hydrogen peroxide is recovered as a weak alkaline solution by continuously passing a solution of sodium chloride past the cathode. Other reduction products such as nitro-benzene, etc., may also be produced. Groups 28—89; 36—12. Reg. No. 9,574.

PAT. 2,184,707. Pressure synthesis of sulphuric acid. Patented Dec 26, 1939.
An increased yield of sulphuric acid may be manufactured in apparatus of smaller size by reacting a solution of nitrosyl sulphuric acid in sulphuric acid with roast gases containing sulphur dioxide. The gases are held under a pressure of 30-50 atmospheres and cause absorption of the sulphur dioxide in the solution. Oxidation of the sulphur dioxide by the nitrosyl sulphuric acid occurs in the liquid phase, and at a temperature between room temperature and 120° C. Group 28—89. Reg. No. 9,575.

PAT. 2,204,543. Process for the purification of sulphur dioxide-containing technical gases obtained from roasting. Patented Jun 18, 1940.
In the manufacture of sulphuric acid by a contact process, impurities in sulphur dioxide (evolved by roasting sulphur ore) harm the catalyst so that the catalyst becomes less active and efficient. Impurities (e. g., arsenic, zinc, fluorine) are removed from the sulphur dioxide gas prior to its entry into the catalyst chambers by direct contact with permutite granules or lumps. The permutite is located between the roasting furnace and the chamber and absorbs all impurities so that sulphur dioxide enters the catalyst chamber in a pure state. Use of the method eliminates liquid-fed washing towers and their hazards and maintains the catalyst at full capacity for years. Group 28—89. Reg. No. 9,576.

PAT. 2,277,840. Contact system. Patented Mar 31, 1942.
Nitrations, sulfonations, and other contact processes may be carried out substantially eliminating the danger of explosions inherent in conventional processes. The patent provides a packed tower having an arrangement of conduits in which ascending and descending gases or liquids are deflected from the inner walls of the tower toward the center. Further advantages of the patent are the absence of moving parts (lengthening the life of the apparatus) and the high degree of nitration or sulfonation obtained by continuous nitration, etc., using mixed acids as compared with standard discontinuous processes. Groups 28--84; 35—51. Reg. No. 9,577.

PAT. 2,350,322. Process of making ammonium salts of aromatic compounds. Patented Jun 6, 1944.
Several disadvantages are avoided by using a topochemical reaction for the production of solid ammonium salts of nitro-phenols, for example ammonium picrate from picric acid. Dried crystals of picric acid are stirred into a benzene solution cooled down to room temperature. Ammonia gas is introduced during the stirring to replace the ammonia bound by the picric acid. The crystals of picric acid are quickly transformed into crystals of ammonium picrate (of the same crystal size as the picric acid) without going into solution. The ammonium picrate is removed from the saturated benzene solution and dried, the resulting crystals being pure. Group 28—84. Reg. No. 9,578.

PAT. 2,394,887. Method and means of rendering harmless poisonous gases in the atmosphere. Patented Feb 12, 1946.
Poisonous organic arsenous compounds used in gas warfare may be rendered harmless by suitable oxidation and the resulting secondary substance eliminated by adsorption

from the respiration air. For example, benzoyl peroxide applied to a carrier such as activated carbon or a silica gel and used in conjunction with fats, waxes, or wool grease in the filter drums of gas masks, or a peroxide-lanoline combination smeared on the skin nullifies the blister-producing effect of a poison gas attack. Groups 33—X2; 34—16. Reg. No. 9,579.

PAT. 2,428,829. Smokeless powder. Patented Oct 14, 1947.
This patent describes a hydrophobic single-base smokeless powder produced from a stable cellulose nitrate with a nitrogen content of 13.8-14%. The powder is obtained from a gel without fiber structure in which nitrated cellulose fibers are embedded having a nitrogen content up to 14% and the same solvent property as the cellulose nitrate of the gel. Since the powder is highly water-repellent, its ballistic properties are not affected by contact with humid atmospheres. Groups 28—84; 33—X2. Reg. No. 9,580.

PAT. 2,006,787. Process for preparing acetic anhydride from acetic acid. Patented Jul 2, 1935.
Too extreme decomposition of acetic acid may be checked by employment of a charged contact surface on which pumice admixed with copper carbonate and silver hydroxide have been precipitated. Excellent yields of acetic anhydride are obtained by avoiding secondary reactions which lead to acetyl losses and the production of more or less valueless byproducts (e. g., carbon dioxide, hydrogen, and ethylene). The process is carried out at temperatures between 600°-800° C. Group 28—61. Reg. No. 9,581.

PAT. 2,270,779. Process of oxidising a hydrocarbon. Patented Jan 20, 1942.
Catalytic reactions for the oxidation of organic substances often go too far, producing the final products of any combustion (i. e., water, carbon dioxide, etc.) instead of the desired substances. Controlled partial oxidation of exothermically oxidizable hydrocarbon compounds in the vapor phase is carried out at required temperature and pressure in the presence of an anti-knock reagent (tetraethyl lead) and a metal oxidation catalyst. The catalyst is not substantially poisoned by the anti-knock reagent. Group 28—86. Reg. No. 9,582.

PAT. 2,270,780. Process for the oxidation of ethylene. Patented Jan 20, 1942.
Direct oxidation of olefines, particularly ethylene and propylene, by means of oxygen or gases containing oxygen forms a corresponding olefine oxide. The process is carried out at atmospheric pressure at 150°-400° C., in the presence of an anti-knock substance (e. g., 0.005-0.2% tetraethyl lead) preferably with a silver catalyst, with or without promoters. Group 28—86. Reg. No. 9,583.

PAT. 2,275,281. Depolarization means. Patented Mar 3, 1942.
Oxygen diffused at the surface of contact between the electrode and electrolyte depolarizes hydrogen at the contact surface so that the amperage, life, and efficiency of batteries is improved. A hollow porous graphite cathode coated with activated carbon (fixed by a water-repellent and alkali-resisting binder) is immersed in the usual zinc battery container filled with sodium hydroxide or a similar electrolyte. Gas or air under pressure is forced through the hollow cathode which is fixed to a cover having an outlet. Excess gas or air escaping through the outlet is recirculated. Group 36—12. Reg. No. 9,584.

PAT. 2,413,855. Emulsion. Patented Jan 7, 1947.
A cheaply manufactured emulsifying and wetting agent may be produced from a salt of a water-soluble sulphonic acid obtained from the distillation of petroleum and tar and an alkaline reacting alkali phosphate salt such as di-sodium phosphate. The emulsion has wide application in that it may be incorporated in fire-extinguishing, dust-collecting, road-coating, fireproofing, and insecticide compounds. Group 28—81—89. Reg. No. 9,585.

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PAT. 2,433,938. Electrical connection for crane hooks. Patented Jan 6, 1948.
Electrical connection for attachment to conventional crane hooks permits unlimited turning of the conductor cable with the hook and its attached load-carrying magnet, thereby eliminating danger of accidental breakage of circuit to magnet. Connection consists of a pair of circular plates of insulating material in face-to-face relation, each carrying a pair of opposed conductor rings which are grooved to form cooperating raceways for ball bearings. Each plate is provided with a socket for reception of conventional electric plugs. The rings and bearings complete the circuit between the sockets. The upper plate is rigidly secured to the usual pulley frame, while the lower plate is mounted for rotation with the crane hook. The lower plate, which is yieldingly urged against upper plate, has its top portion telescoped within the upper plate. (Owner) Eldred L. Varner, Box 25, Cochranville, Pa. Groups 35—31; 36—11. Reg. No. 9,586.

PAT. 2,017,578. Door operating mechanism. Patented Oct 15, 1935.
In case of fire, this mechanism will automatically unlatch and open a pair of doors and fire warning blank cartridges. Each door has a loop or staple on the inside which projects into a common hollow standard (when doors are closed) for the reception of locking pins suspended from the ends of a pair of cables. The cables with weights suspended from their free ends are trained over pulleys. The ends of other pairs of cables are attached to the weights. One pair of these cables, of inflammable material, are trained over pulleys with weights on their free ends to normally urge the other weights upwardly to permit engagement of the locking pins with the loops. The other pair of cables are connected to latches which hold plungers (for opening doors) retracted within housings. In case of fire the inflammable cables will burn and break, permitting the first-mentioned weights to fall withdraw the locking pins, and release plungers. As plungers strike and swing the doors open, they explode blank cartridges. (Owner) Eugene Alsworth, Union Church, Miss. Groups 24—31; 33—59. Reg No. 9,587.

PAT. 2,213,064. Knife. Patented Aug 27, 1940.
A compact pocket knife which may also be used as a ripping device by dressmakers, tailors, etc. The holder has U-shaped ends, with a pivot pin extending through one end on which are mounted a file, blade-holder, and a casing. The blade is positioned in a slot between ends of holder, and its extensions press against the abutments at ends of holder. The blade is easily removed by pressing the protruding end upwardly with the thumb nail and pulling the blade downwardly through the slot. (Owner) Louis H. Campos, c/o Benita Products Co., 1947 Broadway, New York 23, N. Y. Groups 33—51; 40. Reg. No. 9,588.

DES. PAT. 148,543. Design for a wall plaque. Patented Feb 3, 1948.
A wall plaque representing a cartridge belt with a holster containing a gun. The center of plaque illustrates a mounted figure. (Owner) Hubert Johnson, Route 1, Lead, S. Dak. Groups 31—99; 32—69; 40. Reg. No. 9,589.

PAT. 2,431,826. Dovetail measuring device. Patented Dec 2, 1947.
A device for determining the exact measurements of various dovetails and gibs encountered in machine shop practice. Comprises a grooved beam with two adjustably mounted jaws and an auxiliary jaw. Each jaw is provided with a thumb screw, a flat spring, and a slidably mounted adjustable secondary measuring contact over which a measurement may be taken when the jaws are set on the beam for checking or measurement. A removable sphere is positioned laterally of each jaw and has a point of tangency with the bottom face of the beam and a point of tangency flush with a side face of the beam. The spheres serve as primary measuring contacts for engaging the angular surfaces. (Owner) John M. Pozar, 3451 East 98th St. Cleveland 4, Ohio. Group 35—65. Reg. No. 9,590.

PAT. 2,429,345. Clamping and starting tool for screws or the like. Patented Oct 21, 1947.
A clamping and starting tool with an adjustable guide for centering screws, bolts, etc. The threaded shaft has a turning handle at one end and a spring tensioned ball and socket engagement at other end so various sizes of nut sockets and screw drivers are interchangeable. An arm has aligned bores in its curved ends, one threaded to receive the shaft while the top portion receives a spring tensioned pin. Another pin is threadedly engaged through upper portion of arm, with a saddle on inner end to axially align the shank of a screw with the bore of a clamp member. (Owner) Elizabeth Davis, 239 West 1st St., Loveland, Colo. Groups 33—52; 35—69. Reg. No. 9,591.

PAT. 2,436 291. Self-sealing closure for containers. Patented Feb 17, 1948.
This invention consists of a closure or "bottle-top" for containers eliminating the necessity of removing the conventional cap or top for access to contents. An applicator (brushes, tweezers holding cotton, swabs, eyedroppers, or the like) is inserted through the closure and into the contained substance. Upon withdrawal of the applicator all excess substance is removed, preventing dripping when liquids are contained, and in the case of brushes, the bristles are pointed to a perfect point. This pointing feature is particularly desirable for use of fingernail polishes, paints, inks, etc. Uses with other applicators apply to medicines, powders, and the like. Other features are the prevention of evaporation and oxidation as well as spilling due to overturning the container. (Owner) L. H. Daniel, c/o V. L. Bronais, 934 South Detroit St., Los Angeles 36, Calif. Groups 28—83; 30—31; 40. Reg. No. 9,592.

PAT. 2,069,100. Waste pipe cleaner. Patented Jan 26, 1937.
Waste pipe cleaner utilizing city water pressure consists of inverted cup-shaped member formed of inner and outer shells of thin sheet metal, with flexible apertured diaphragm, preferably of rubber, over the open portion of the cup secured by clamping between the inner and outer shells A flexible hose may be used to connect a nipple in side of cup to a hot water faucet so that water under pressure will flow into cup, out through the central opening in diaphragm, and into drain pipe. The diaphragm will expand outwardly if water backs up in the cup. Downward pressure exerted on the cup (which has a handle secured to its top at the center) will contract the expanded diaphragm, tending to force water from cup into drain pipe. (Owners) Marian A. Szukalski, Sr., and Marian F. Szukalski, Jr., 1412 West Lincoln Ave., Milwaukee 7, Wis. Groups 30—31; 33—73; 34—41. Reg. No. 9,593.

Dedicated Patent

The National Lead Company of 111 Broadway New York, N. Y., being desirous of permitting and encouraging the free use of the improvements described and claimed in the following patent, does hereby dedicate said patent to the people of the United States, by instruments recorded in the United States Patent Office. The instruments read in part as follows: ...on behalf of itself, its successors and assigns, hereby irrevocably assigns and dedicates... the improvements described and claimed therein to the People of the United States, for the free use of all persons, firms and corporations in the United States, its territories and possessions..."

PAT. 1,991,637. Application of mud-laden fluids to oil or gas wells. Patented Feb 19, 1935.
This patent provides a mud-laden fluid of the desired density and viscosity in which the suspendable base materials are maintained in suspension practically indefinitely by the addition of a small percentage of concentrated colloidal clay, such as bentonite. A suitable base material is barytes, which may be combined with ordinary drilling mud obtainable at the wells. As one specific example of obtaining the desired mud-laden fluid, from 95% to 98% of barytes and from 2% to 5% of concentrated colloidal clay may be combined in a dry state and mixed with water. Other suspending agents may be used in place of bentonite. Group 35—32.

PAT. 2,342,229. Combined solarium and airing cabinet. Patented Feb 22, 1944.
A device providing means for children to obtain all the benefits of sun baths and fresh air without exposure to cold or drafts, and protecting the child from dust and insects. The plastic cabinet includes a hollow rectangular body for detachably placing in a window casing. The outer end wall is low and forms a channel, the bottom and top of which have openings for the circulation of fresh air without a draft, as a deflector directs the air away from the child. There is a hinged door which opens in a horizontal position and serves as a dressing table for

the child. The interior of the cabinet receives heat from the room. (Owner) Maud B. Trone, 7233 North Ruson Ave., Chicago 45, Ill. Group 39—81. Reg. No. 9,594.

PAT. 1,918,192. Hat blocking and rebuilding machine. Patented Jul 11, 1933.
Machine has a casing divided into an upper horizontal steam chamber, a lower inclined steam chamber, and an intermediate steam chamber. Top of upper chamber is perforated and covered with fabric. The bottom inclined wall of the lower chamber is also perforated and covered with cloth. Steam is supplied to the upper and lower chambers through pipes controlled by foot pedals. Steam from a separate pipe is continuously supplied to the intermediate chamber for the purpose of heating the casing and preventing or reducing condensation in the upper and lower chambers. Stationary guide stands with inclined tops are disposed below the inclined plate of the lower chamber. Brim of hat is steamed and ironed by moving it upward and outward in contact with the fabric covering of the lower inclined steam plate, the operator at same time using his hand to work the brim into proper shape. The crown of the hat is then blocked by moving the same over the upper steam plate, the hat being turned with a smoothing motion to obtain the proper ironing effect. (Co-owner) Esther P. Farr, 253 Greene St., Augusta, Ga. Group 35—59. Reg. No. 9,595.

PAT. 2,428,107. Fire alarm. Patented Sep 30, 1947.
This alarm employs a blank cartridge as a warning signal. The cartridge is supported within a holder aligned with a slidable spring-actuated firing pin held under tension by a trigger bar. The lower end of the bar is latched to a strand of fusible wire which melts, releasing the bar and firing pin. The assembly is mounted on a base plate provided with a perforated cover which serves as a shield as well as a sounding board to amplify the volume of the fired cartridge. (Owner) Albert Kohn, 159 David Ave., Checktowaga, N. Y. Groups 28—92; 33—73; 36—62; 40. Reg. No. 9,596.

PAT. 2,037,772. Eye and nose protector. Patented Apr 21, 1936. Groups 39—14; 40 Reg. No. 9,597.

PAT. 2,197,973. Nose protector. Patented Apr 23, 1940. Groups 39—14; 40. Reg. No. 9,598

These two patents describe a substantially U-shaped shield (as generally shown in Patent 2,037,772) which extends from the bridge of a pair of glasses to protect the nose from sunburn. The shield does not rest on the nose. It may be made either as an integral centerpiece or snapped on a pair of sunglasses as a separate attachment as particularly shown in Patent 2,197,973. (Owners) George Ira Everett and Deane W. Colton. Address correspondence to Dicks, Padlon & Seeley, 120 Broadway, New York 5, N. Y.

PAT. 2,434,535. Internal thread gage. Patented Jan 13, 1948.
This internal thread gage is characterized by its quick action, direct reading, and uniform pressure. Gage has two pieces: A head with three radiating arms, and a tubular handle housing an air valve and a spring-pressed shaft with a tapered forward end. Each of the arms carries a toothed segment, one of which is movable, as a transverse roller on an adjacent lever accommodates itself to the tapered end of the shaft. Finger grips on the shaft (moving through slots in the handle) may be pulled back when the gage is inserted into an opening. Upon release of the grips, the shaft moves forward, cushioned by the valve so that the segments mesh with the internal thread. Reading is made by means of an indicator mounted on the shaft that cooperates with the graduated scale of a central window in the handle. (Owner) John F. Anders. Address correspondence to Munn, Liddy & Glaccum, 24 West 40th St., New York 18, N. Y. Groups 35—69; 38—31. Reg. No. 9,599.

PAT. 2,383,385. Jet propulsion power plant. Patented Aug 21, 1945.
Jet propulsion power plant for airplanes and like craft includes a radial internal combustion engine surrounded by a compression chamber into which exhaust gases from the engine are discharged. A centrifugal compressor is mounted on the drive shaft of the engine. A turbine rotor having peripheral blades for receiving the flow of air from compressor is mounted back of the compressor for free rotation on shaft. Air drawn in by the compressor is forced into the compression chamber through a series of curved openings through turbine blades and an annular passage communicating with the openings and the chamber. As the air is compressed into the chamber, it is directed over and around the engine to absorb exhaust gases as they are discharged from engine to increase the pressure in the chamber prior to exhaustion through a reaction nozzle to propel craft. To compensate for loss of power the turbine rotor is geared to the back of and driven by the compressor for operation at approximately half the speed of the compressor so that some of the power transmitted by the engine shaft to the compressor is returned to the shaft by the flow of air to and through the turbine. (Owner) Carl Paul Heintze, Clocks Blvd., Amityville, Long Island, N. Y. Group 37—22. Reg. No. 9,600.

PAT. 2,435,349. Wallpaper perforator. Patented Feb 3, 1948.
Device used to perforate wall paper for the admission of moisture to facilitate its removal from wall. It consists of a roller upon which a pair of semi-cylindrical members are removably mounted, and a forked handle having its terminals bent inwardly and mounted in bearings in opposite ends of roller. The surface of the semi-cylindrical members is completely covered with closely spaced sharp points for puncturing paper. (Owner) Eulis T. Hall, 914 Linwood Blvd., Kansas City, Mo. Group 33—52. Reg. No. 9,601.

PAT. 2,108,315. Rotating shaft controlling apparatus. Patented Feb 15, 1938.
Control apparatus imparts uniform speed of rotation to a shaft without the use of a fly wheel. A controlling shaft is journaled in brackets on a controlling beam hinged to a base plate. A main shaft driven by a motor is journaled in brackets secured to the base plate A crank on one end of the main shaft has a roller engaging the slotted end of an arm on the inner end of the controlling shaft, connecting shafts. An arm on the other end of the controlling shaft carries an adjustable weight. As the main shaft rotates the controlling shaft, the revolving weighted arm swings the controlling beam downwardly against the tension of a spring, and as the arm starts its upward swing, the spring moves beam upwardly. This imparts uniform rotation to the controlling shaft, such as would result from a heavy fly wheel. (Owner) Vincent Liguori, 37 West 11th St., Bayonne, N. J. Group 35—86. Reg. No. 9,602.

PAT. 2,215,096. Rotary internal combustion motor. Patented Sep 17, 1940.
Rotary engine of the Diesel type requires no timing gears, camshaft, movable valve operating mechanism, or reciprocating parts of any type. The engine consists of two similarly constructed sections connected by a common shaft, one a power-producing section and the other a compressor section, which supplies highly precompressed fuel charges. The power-producing section includes a casing having a pair of interlapping cylindrical cavities with a rotor mounted in each cavity. The rotor in top cavity is provided with a series of spaced peripheral pockets to receive a series of spaced cylindrical hollow elements around the periphery of the lower rotor so that the rotors are intermeshed for rotation in unison. The hollow elements and the pockets constitute intercommunicating primary and main combustion chambers wherein combustion is initiated in the primary combustion chambers (which are the hollow elements) and then in the main combustion chambers to drive the rotors in opposite directions. An air relief valve is provided for controlling the degree of compression in the pockets. (Owner) C. J. T. Fanberg, Kerkhoven, Minn. Group 35--12--19. Reg. No. 9,603.

PAT. 2,428,934. Airplane having adjustable wings and wing adjusting means. Patented Oct 14, 1947.
An airplane having adjustable wings and wing-adjusting means so the plane will function efficiently at various speeds and flying conditions. The wings are pivoted to the fuselage and held in position by adjustable piston rods pivoted to the inner edges of the wings and secured to pistons which operate in cylinders supported in brackets upon a vertical pivot. The combined spring and liquid pressure within the cylinder maintain the wings in forward position during the take-off and climb of the plane. When the plane moves forward at high speed, pressure on the leading edges of the wings increases, tending to pivot the wings toward the fuselage. When pressure is sufficient to compress the springs between the pistons and ends of cylinders and to overcome the air pressure upon the liquid within the tank, the wings pivot rearwardly. The position of the wings is regulated by the speed of the plane as it travels through the air. By properly regulating the pressure and proportioning the liquid and air within the tank, any desired resistance may be provided to the pivoting of the wings. (Owners) Raymond G. Gille and Harold K. Pourquin. Address correspondence to Raymond G. Gille, Stillwater and Gohlke Road, Route 6, St. Paul 9, Minn. Group 37--21. Reg. No. 9,604.

PAT. 2,434,732. Extensible drill press. Patented Jan 20, 1948.
A drill press with an extensible adjustable drill-head which facilitates the drilling of various holes in work without changing the position of work upon the drill table. The center of the first hole to be drilled is marked and then, by following dimensions and remarks of a drawing or blueprint, the operator can adjust the head of the drill to any position or angle and drill the holes by matching the scale etched upon the extensible horizontal drill-head support and the angle of degrees upon the rotating members of the drill press. (Owner) James Alick, 600 West 134th St., New York, N. Y. Group 35--41. Reg. No. 9,605.

PAT. 2,423,726. Quick breaking union for pipe ends. Patented Jul 8, 1947.
Union is provided with an external swinging yoke for quickly coupling and uncoupling its ends. Union consists of a pair of opposed pipe end members formed with enlarged heads on their inner ends and open-ended, elastic tubular male and female members positioned and held between the end members. The male and female members are adapted to engage each other to form a fluid-tight seal when ends of union are coupled together. A spring yieldingly urges female member into engagement with male member. To couple union, the yoke, which is pivoted to one of the pipe end members, is swung downwardly so that a pair of springy yoke arms will snap behind an abutment on the other end member and force the ends together. A pin may be placed through the ends of the arms to prevent accidental uncoupling of the union. (Owner) Joe Prata, 1543 West 220th St., Torrance, Calif. Group 35--69. Reg. No. 9,606.

PAT. 2,277,226. Engine. Patented Mar 24, 1942.
A motor-driven vertical compressor receives and compresses a fuel and air mixture and forces the charge through pressure-operated valves into a lower chamber from where substantially the whole charge is subsequently expanded into an explosion chamber before ignition. Heat of exploding charge instantaneously converts an atomized spray entering explosion chamber into steam which mixes with the resultant combustion products to drive turbine. Admission of the charge into the explosion chamber is controlled by a timed slide valve in a nozzle-like passage which connects the chambers. (Owner) Archie Hansen, Box 200, Waterman, Ill. Groups 35--19; 38--31. Reg. No. 9,607.

PAT. 2,434,696. Thermostatic switch and holder therefor. Patented Jan 20, 1948.
An inverted U-shaped holder for a thermostatic switch by means of which a liquid-controlled thermostat, such as is commonly used in the cooling system of a motor vehicle, may be used for controlling an electrical switch. The thermostat, suspended by a ring-shaped float, contacts the liquid while the electrical equipment is held clear. As thermal changes take place in the liquid, a push rod at upper end of thermostat is moved and causes a switch arm to engage or disengage one of the contacts on the holder to open or close a circuit. (Owner) Gray W. Holmes, Miller, Mo. Groups 33--66; 36--21; 38--31. Reg. No. 9,608.

PAT. 2,437,102. Index device. Patented Mar 2, 1948.
Small index device for desks has a pair of hinged side covers which are normally held in vertical closed position to hold a plurality of rigid index cards and index sheets therebetween. A selector button is secured to the top of each card so that depressing any button will force an underlying yielding plate downwardly to release latching means and permit the covers to pivotally swing downwardly to horizontal position. The plate (mounted on springs) is formed at its center with a lock extension on each edge for latching engagement with slots in the covers. Spaced rings are rigidly secured to the top of the plate for holding the lower edges of the cards and sheets. (Co-owner) Raymond B. Larter, 3726 Effingham Place, Los Angeles 27, Calif. Group 35--79. Reg. No. 9,609.

PAT. 2,436,593. Combined curb and sewer. Patented Feb 24, 1948.
Combined curb and storm sewer for airfield runways, streets, or roadways consists of a series of trough-shaped sections of reinforced pre-cast concrete with removable pre-cast concrete gratings closing the top. The gratings seat on ledges and lie flush with the tops of the sections. When laid end to end the sections are connected by a male flange in the end of one section engaging a female groove in an adjacent section. The sections may be installed so their upper portions disposed above the surface to form a curb. When installed flush, drainage water flows in through the gratings. When installed to form a curb, drainage water will flow in through openings in the side sections. Drainage water flowing through the sections

may be carried off to a sewer, or escape into the subgrade through sub-surface drain openings adjacent the bottom of some of the sections. Modifications are shown. (Owner) Herman G. Moselowitz, 7 Spring St., New Brunswick, N. J. Group 32—71. Reg. No. 9,610.

PAT. 2,436,166. Tape cutting attachment for spools. Patented Feb 17, 1948.
Spool carries a pivoted blade mounted for circumferential movement so that it may be positioned at any desired point for cutting tape. The inner opposed surfaces of the flanges of the spool are each formed with an annular groove in which a pair of runners are slidably mounted. The runners are connected by a transverse pin on which the cutting blade is pivotally mounted. A finger piece having lugs engaging opposite side of the blade is pivoted to the pin for swinging the blade into and out of engagement with the tape and firmly holds blade against tape while sections are cut. Stops carried by the runners limit out-swinging movement of the blade so that the cutting edge cannot be exposed beyond the periphery of the spool, thereby eliminating the danger of injury when handling spool. (Owner) Stephen Gaydos, Jr., 1320 Williams St., Gary, Ind. Groups 26—64; 33—51. Reg. No. 9,611.

PAT. 2,436,161. Nailing device. Patented Feb 17, 1948.
Device may be used to partially drive nails of various sizes without holding them with the fingers. It consists of an elongated open-ended tube partially cut away at one side to permit lateral insertion of a nail, an adjustable ram operable in tube, and a partitioned nail container adjustably mounted alongside tube. When the device is brought to upright position, the shanks of several nails slide through a slot in nail container. Operator then slides the innermost nail laterally through a nail guide slot and snaps it into a pair of springs which hold and guide the nail as it is driven. Ram is then struck with a hammer to partially drive the nail. Slight lateral pull will disengage device from driven nail. (Owner) Paul L. Bridegroom, Leiters Ford, Ind. Group 33—52. Reg. No. 9,612.

PAT. 2,397,572. Manually operated breech-loading rapid-fire gun. Patented Apr 2, 1946. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.)
Gun may be used for projecting smoke and gas shells, projectiles, and grenades. A breech block slidably sleeved on rear end of gun barrel has its front end connected to an elongated sleeve. The sleeve and breech block are connected to a semi-cylindrical slide which carries a pistol grip, a trigger, and a firing pin on its rear end. The various connections permit slide, breech block, and sleeve to slide as a unit, and also permit independent sliding movement of the slide to cause rotation of the sleeve in opposite directions to lock and unlock sleeve to barrel. The trigger is used only to lock and hold the slide in its normal position with the firing pin facing a hole in end of breech block. To load and fire, an operator pulls the slide rearwardly and inserts the shell, and then shoves the slide forwardly in one continuous operation to lock sleeve to barrel and fire shell. If trigger is released when loading, it will automatically stop and lock the slide in its normal position without firing shell. (Owner) Fleming R. Weaver, Building 330, Army Chemical Center, Md. Group 33—97. Reg. No. 9,613.

PAT. 2,019,655. Automobile lock and locking mechanism. Patented Nov 5, 1935.
A brass tumbler lock for automobiles or the like. A key-operated cylinder is rotatably secured in the lock bore in casing and has spring-pressed key-operated tumblers with locking tongues of different depths whereby all tumbler key slots in locking position remain parallel to prevent measuring of tumblers by an unauthorized person. (Owner) Salvatore L. Centofanti, 25 South Pearl St., Youngstown 6, Ohio. Groups 33—59; 38—31. Reg. No. 9,614.

PAT. 2,435,394. Adjustable toothbrush. Patented Feb 3, 1948.
A toothbrush adjustable to up-and-down and sidewise brushing. Two rows of stationary bristles are provided with a recess between the rows for an adjustable slide with bristles. By means of a button at the end of slide its bristles may be pushed into alignment with or in staggered relation to the fixed bristles. (Owner) James P. Hawley, 1 Sunnybrook Road, Bronxville 8, N. Y. Group 39—22. Reg. No. 9,615.

PAT. 2,437,013. Combination oil pan and internal engine cleaner. Patented Mar 2, 1948.
A system of interconnected conductor tubes is built integral with the oil pan and all are fed by a single connection from a source of liquid solvent under high pressure. The tubes are provided with a series of jet holes to direct a spray to remove the deposits, which are washed down into the oil pan to a drain opening. (Owner) Alva Adams, 9th and Central, Connersville, Ind. Group 35—19. Reg. No. 9,616.

PAT. 2,323,093. Portable receptacle. Patented Jun 29, 1943.
This box has a closely fitting, hingedly connected lid which may be swung outwardly and held in position as a rack, as a rearwardly extending shelf, or lowered to an out-of-the-way position behind the box. Connection between the lid and box is made by a pair of U-shaped straps which straddle the top edge of the box when lid is swung upwardly. The straps are fixed at one end to hinge plates mounted on the inside wall of the box and at the other by a spring-carrying T-head held within a channeled guide on the undersurface of the lid. The box, which may be made in any shape, has a wide variety of uses. (Owner) Joseph H. Levin, Hotel Seville, 22 East 29th St., New York, N. Y. Group 33—73—99. Reg. No. 9,617.

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Patent Removed from Register

PAT. 2,040,149. Method of branding lamb and the like, owned by Swift & Company, is withdrawn from the Register. Reg. No. 8,447.